CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 2, 1905.

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PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Mar.				
3	Steel, concrete floor	Wash., D. C.	S	2- 9
•7	Ditches	Storm Lake, Ia.	S	2- 9
•8	Filtration system	Pittsburg, Pa.	P. & S	2- 2
11	Fireproof prison	New York, N.Y.	S	2- 9
11	Elec. elevators	Portsm'th, N.H.	S	2-16
•13	Stopcock boxes	Cleveland, O.	S. & B. S	2-23
•17	Dredge	St. Louis, Mo	P. & S	1-19
•28	Coal pocket, etc.	Atlantic Cy, N.J.	P. & S	3- 2
25	Electric crane	Portsmouth, N.H.	S	3- 2
May				
•14	Water-works	Mansfield, La.	S	2- 2

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT. HEAT AND POWER PLANTS.

Mar. 20. Electric generating plant, Wash., D. C....Feb. 9
Advertised, Eng. News, Feb. 9.
Mar. 21. City lighting, Norwalk, O................Feb. 16
Advertised, Eng. News, Feb. 16.
Mar. 21. Power house, New York, N. Y...........Mar. 2
Apr. 11. City lighting, Shreveport, La..........Feb. 16
April 3. Electric lighting, Cape Charles, Va. ....Feb. 23
Apr. 12. Power house, Lockport, Ill.............Feb. 16
Advertised, Eng. News, Feb. 16.

BRIDGES.

Mar. 2. Lattice work, bridge, New York, N. Y. ...Feb. 23
Mar. 3. Bridge, Kalama, Wash. ....Feb. 23
Mar. 4. Bridges, steel, Valley City, N. Dak......Feb. 16
Mar. 6. Bridge, steel, Amite City, La............Feb. 16
Mar. 6. Bridge, steel, Valparaiso, Ind...........Feb. 16
Mar. 6. Bridge, Los Gatos, Cal..................Feb. 9
Mar. 6. Bridges, St. Anthony, Idaho ....Feb. 23
Mar. 6. Bridge, Minneapolis, Minn..............Mar. 2
Mar. 6. Bridges, steel, Mt. Vernon, Ind..........Mar. 2
Mar. 6. Bridge, steel, Yazoo City, Miss.........Mar. 2
Mar. 6. Bridges, West Point, Miss..............Mar. 2
Mar. 7. Bridge, Albion, Ind. ....Feb. 23
Mar. 8. Culvert, steel, Des Moines, Ia...........Mar. 2
Mar. 13. Bridge, San Bernardino, Cal............Feb. 9
Mar. 13. Bridges, Lebanon, O....................Mar. 2
Mar. 15. Bridge, Crawfordsville, Ind. ....Feb. 23
Mar. 18. Arches, concrete, Des Moines, Ia........Mar. 2
Mar. 21. Bridges, Central City, Neb..............Mar. 2
Mar. 22. Bridge, Providence, R. I.................Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 16.
Mar. 23. Bridge approach, Washington, D. C. ....Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 16.
Mar. 25. Bridges, Bentonville, Ark..............Mar. 2
Mar. 30. Drawbridge, Manistee, Mich.............Mar. 2
Advertised, Eng. News, Feb. 23 and Mar. 2.
Apr. 4. Bridges, steel, Columbus, Ga............Mar. 2
April 4. Bridges, Lincoln, Neb. ....Feb. 23
Apr. 4. Bridge, Goldendale, Wash...............Feb. 9
Apr. 6. Bridge, Wabash, Ind.....................Mar. 2
No date. Bridges, Bluffton, Ind..................Mar. 2

BUILDINGS.

Mar. 2. Post office, Adrian, Mich................Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 3. Electric wiring, Savannah, Ga...........Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Mar 3. Steel, concrete floor, Washington, D. C..Feb. 9
Mar. 4. College building, Galt, Ont..............Mar. 2
Mar. 4. School, Elkins Park, Pa..................Mar. 2
Mar. 5. Post office, Battlecreek, Mich..........Feb. 9
Mar. 6. Dormitory, etc., Washington, D. C......Feb. 9
Mar. 6. Court house, Greenwood, Miss............Jan. 26
Mar. 6. Post office, Battlecreek, Mich..........Jan. 26
Mar. 6. Church plans, Portsmouth, O............Feb. 16
Advertised, Eng. News, Feb. 16.
Mar. 6. Court-house, Sardis, Miss. ....Feb. 23
Mar. 6. Jail specifications, Monticello, Miss. .....Feb. 23
Mar. 6. Brick annex, Springfield, O. ....Feb. 23
Mar. 6. Court house alterations, Chicago, Ill....Mar. 2
Mar. 6. School, New York, N. Y..................Mar. 2
Mar. 7. Jail, Dublin, Ga. ....Feb. 23
Mar. 7. Court house, Hot Springs, Ark...........Feb. 16
Mar. 7. Post office, Findlay, O..................Feb. 2
Mar. 8. Post office, Muskegon, Mich.............Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 8. Cut-stone work, Washington, D. C......Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 2.
Mar. 8. Barrack, Ft. Baker, Cal. ....Feb. 23
Mar. 8. School, Delavan, Wis. ....Feb. 23
Mar. 8. Hospital building, Central Islip, N. Y....Mar. 2
Mar. 9. Jail, New Albany, Miss...................Mar. 2
Mar. 9. Hospital, Dulce, N. Mex. ....Feb. 23
Mar. 9. School, Columbia, S. C. ....Feb. 23
Mar. 9. Court house, Elbow Lake, Minn..........Feb. 16
Mar. 9. Steam heating, Savannah, Ga.............Feb. 9
Mar. 10. Wagon shed, Oswego, N. Y................Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 10. Military quarters, New Bedford, Mass. ..Feb. 23
Mar. 10. Bakery (mfg. pl.), Jefferson Barracks, Mo. Feb. 23
Mar. 10. Building plans, Macon Ga..............Mar. 2
Mar. 11. Public hall, Newburg Heights, O........Feb. 23
Mar. 11. Fireproof prison, New York, N. Y........Feb. 9
Mar. 12. Court house, Magnolia, Ark.............Feb. 9
Mar. 13. Post office, Hammond, Ind...............Jan. 26
Mar. 13. School annex, Cleveland, O. ....Feb. 23
Mar. 13. City hall, Oskaloosa, Ia. ....Feb. 23
Mar. 14. Post office, Moberly, Mo.................Jan. 26
Mar. 15. Jail equipment, etc., Camden, N. J......Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 15. Y. M. C. A. building, Seattle, Wash. ....Feb. 23
Mar. 15. Plumbing, etc., Cedar Rapids, Ia.........Mar. 2
Mar. 20. Post office, Elizabeth, N. C.............Feb. 2
Mar. 21. Post office, Laredo, Tex..................Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 21. Armory, Rochester, N. Y. ....Feb. 23
Mar. 21. Station and power house, New York, N. Y. Mar. 2
Mar. 22. Plumbing, Grand Rapids, Mich...........Mar. 2
Mar. 23. School, Baton Rouge, La.................Mar. 2
Mar. 27. City hall, Alpena, Mich..................Mar. 2
Mar. 27. Post office, Lebanon, Pa..................Feb. 9
Mar. 28. Post office, Superior, Wis................Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Apr. 3. Court-house, Kentland, Ind. ....Feb. 23
Apr. 3. Post-office, Macon, Ga. ....Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 2.
Apr. 3. College building, Ithaca, N. Y..........Mar. 2
Advertised, Eng. News, Mar. 2 to Mar. 16.
Apr. 6. Post office, Marblehead, Mass...........Mar. 2
June 15. Court-house plans, New Orleans, La......Feb. 23

WATER SUPPLY AND IRRIGATION.

Mar. 2. Water-pipe and fittings, Bellingham, Wash. ....Feb. 23
Mar. 3. Tank and trestle, Fort Reno, Okla......Feb. 9
Mar. 3. Pipe, valves, etc., Youngstown, O......Feb. 16
Advertised, Eng. News, Feb. 16 and 23.
Mar. 4. Water-pipe, Cleveland, Miss. ....Feb. 23
Mar. 4. Hydrants, valves, Chicago, Ill...........Mar. 2
Mar. 6. Pig lead, packing, Montgomery, Ala.....Mar. 2
Mar. 6. Curb boxes, etc., Syracuse, N. Y.......Mar. 2
Mar. 6. Pipe, etc., London, Ont..................Mar. 2
Mar. 6. Boiler and pump, Santa Ana., Cal.......Mar. 2
Mar. 6. Pumps and engines, Ford City, Pa.......Feb. 23
Mar. 6. Pumping plant, Iowa Falls, Ia...........Feb. 9
Mar. 7. Water system extension, Cheyenne, Wyo. Feb. 23
Mar. 7. Engine foundation, Milwaukee, Wis....Mar. 2
Mar. 8. Filtration plant, Pittsburg, Pa...........Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 8. Water main extension, Fort Du Pont, Del. Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 8. Hydrants, New York, N. Y. ....Feb. 23
Mar. 10. Water-works, Bishop, Cal. ....Feb. 23
Advertised, Eng. News, Dec. 8 to Dec. 29.
Mar. 10. Corporation ferrules, Chicago, Ill.......Mar. 2
Mar. 11. Settling well, Lorain, O..................Feb. 16
Mar. 13. Stopcock boxes, Cleveland, O. ....Feb. 23
Advertised, Eng. News, Feb. 23.
Mar. 13. Brass goods, pipe fittings, Winnipeg, Man. Mar. 2
Mar. 13. Pipe and laying, Port Townsend, Wash..Mar. 2
Mar. 13. Pumping plant, Bellingham, Wash........Mar. 2
Mar. 15. Tank and Tower, Osborne, Kan. ....Feb. 23
Mar. 16. Water-works, Callicoon, N. Y. ....Feb. 23
Advertised, Eng. News, Feb. 23 and Mar. 2.
Mar. 17. Pipe and castings, Cincinnati, O........Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 9.
Mar. 18. Water pipe, Washington, D. C...........Mar. 2
Advertised, Eng. News, Mar. 2.
Mar. 20. Water-works and sewers, North Bay, Ont. Feb. 23
Mar. 20. Water-works, Boyce, La..................Mar. 2
Mar. 20. Water-works, Meeker, Colo. ....Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 16.
Mar. 21. Well, Fort Caswell, N. C...............Feb. 9
Mar. 21. Pumping engine, Toronto, Ont. ....Feb. 23
Advertised, Eng. News, Feb. 23 and Mar. 2.
Mar. 25. Boiler, pump, etc., Ft. Assinniboine, Mont. Mar. 2
Advertised, Eng. News, Mar. 2 to Mar. 30.
Apr. 10. Water pipe, Winnipeg, Man.............Feb. 16
Apr. 18. Pumping machinery, New Orleans, La..Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
May 14. Water-works, Mansfield, La.............Mar. 2
Advertised, Eng. News, Mar. 2.

SEWERAGE.

Mar. 2. Sewers, Buffalo, N. Y. ....Feb. 23
Mar. 6. Sewer, Montgomery, Ala. ....Feb. 23
Mar. 6. Sewer siphons, Washington, D. C........Feb. 9
Advertised, Eng. News, Feb. 9.
Mar. 6. Sewers, Atlanta, Ga......................Mar. 2
Mar. 6. Sewers, Massillon, O......................Mar. 2
Mar. 7. Sewer, Saratoga Springs, N. Y...........Mar. 2
Mar. 7. Sewers, Chicago, Ill......................Mar. 2
Mar. 7. Sewer system, Holly Springs, Miss. ......Feb. 23
Advertised, Eng. News, Feb. 23.
Mar. 8. Sewage pumping station, Columbus, O...Feb. 23
Advertised, Eng. News, Feb. 23.
Mar. 11. Brick sewer, Des Moines, Ia.............Mar. 2
Apr. 18. 65 miles sewers, New Orleans, La......Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.

STREETS AND ROADS.

Mar. 3. Paving, brick, Cincinnati, O.............Feb. 16
Mar. 3. Grading, Ft. Leavenworth, Kan. ....Feb. 23
Mar. 4. Paving, brick, Racine, Wis...............Mar. 2
Mar. 6. Asphalt repair, Syracuse, N. Y..........Mar. 2
Mar. 6. Brick, etc., Atlanta, Ga...................Mar. 2
Mar. 6. Sidewalks, etc., Atlanta, Ga.............Mar. 2
Mar. 6. Paving, etc., Ashland, Ky.................Mar. 2
Mar. 7. Sidewalks, Paola, Kan....................Mar. 2
Mar. 7. Paving, St. Louis, Mo.....................Mar. 2
Mar. 7. Sidewalks, cement, Broad Ripple, Ind....Feb. 16
Mar. 7. Roads, gravel, Rockville, Ind.............Feb. 16
Mar. 8. Paving, Brooklyn, N. Y. ....Feb. 23
Mar. 9. Roads, Bedford, Ind. ....Feb. 23
Mar. 10. Paving, asphalt, Cincinnati, O. ....Feb. 23
Mar. 10. Grading, Ventura, Cal.....................Mar. 2
Mar. 13. Paving, brick, La Crosse, Wis............Mar. 2
Mar. 15. Paving, brick, So. Bend, Ind............Mar. 2
Mar. 14. Paving, vitrified brick, Cambridge, O. ...Feb. 23
Mar. 15. Paving, Elizabeth, N. J. ....Feb. 23
Mar. 15. Road, gravel, Rensselaer, Ind.............Mar. 2
Mar. 16. Roads, Bloomfield, Ind......................Feb. 16
Mar. 18. Road, Cincinnati, O.........................Mar. 2
Mar. 20. Paving, Cincinnati, O.......................Mar. 2
Mar. 21. Sidewalks, cement, Bessemer, Ala......Mar. 2
Mar. 24. Macadamizing, Cincinnati, O............Mar. 2
Apr. 5. Roads, Peru, Ind ....Mar. 2
Apr. 18. Grading, etc., La Crosse, Wis............Mar. 2

MISCELLANEOUS CONTRACTS.

Mar. 2. Iron and lumber, New York, N. Y. ......Feb. 23
Mar. 3. Cement, San Francisco, Cal.............Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 4. Timber, Ottawa, Ont.......................Feb. 16
Mar. 4. Breakwater and wharf, North Head, N. B. Feb. 23
Mar. 6. Fire hose, Syracuse, N. Y................Mar. 2
Mar. 6. Wreck removal, Boston, Mass...........Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 9.
Mar. 6. Electric tramcars, etc, South Africa....Jan. 12
Mar. 6. Railway tunnels, Pa., N. J., & N. Y. Ry..Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 6. Fire alarm system, Bakersfield, Cal. ....Feb. 23
Mar. 6. Dredging, Philadelphia, Pa. ....Feb. 23
Mar. 6. Garbage plant, New York, N. Y. ....Feb. 23
Mar. 7. Arc lamps, rope, cement, etc., Washington, D. C. ....Feb. 23
Mar. 7. Steel rails, fish plates, Australia..........Jan. 19
Mar. 7. Ditches, Storm Lake, Ia....................Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 3.
Mar. 7. Cable, New York, N. Y....................Mar. 2
Mar. 7. Pier extension, Quaco, N. B..............Mar. 2
Mar. 7. Garbage removal, Princeton, N J.......Mar. 2
Mar. 8. Hire of dredging plant, Detroit, Mich...Feb. 23
Mar. 9. Steel shed, New Orleans, La.............Feb. 16
Advertised, Eng. News, Feb. 16 and 23.
Mar. 9. Road roller, scarifier, New York, N. Y..Mar. 2
Mar. 10. Pier work, New York, N. Y...............Mar. 2
Mar. 10. Ditches, Shakopee, Minn..................Mar. 2
Mar. 11. Electric elevators, Portsmouth, N. H....Feb. 16
Mar. 13. Ferry structures, New York, N. Y.....Mar. 2
Mar. 14. Transformers, etc., Washington, D. C....Feb. 16
Mar. 14. Portland cement, Wheeling, W. Va......Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 16.
Mar. 14. Machine tools, Washington, D. C. ....Feb. 23
Mar. 15. Cable, Washington, D. C. ....Feb. 23
Mar. 15. Street railway, No. Adams, Mass. ....Feb. 23
Advertised, Eng. News, Feb. 16 and 23.
Mar. 15. Dam, Los Angeles, Cal...................Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 23.
Mar. 15. Ditch work, Clarion, Ia...................Mar. 2
Mar. 15. Street signs, Columbus, O...............Mar. 2
Advertised, Eng. News, Mar. 2 and 9.
Mar. 15. Mail conveyors, Chicago, Ill............Mar. 2
Mar. 15. Portland cement, Peterborough, Ont......Feb. 23
Mar. 17. Dredge, St. Louis, Mo....................Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Mar. 18. Stone and cement, Wilmington, N. C.....Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 23.
Mar. 20. Drainage ditch, New Cambria, Mo. ......Feb. 23
Mar. 20. Levee work, England, Ark..............Mar. 2
Mar. 21. Drainage ditch, Webster City, Ia........Feb. 16
Mar. 31. Electric railway, China ....Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Mar. 22. Drainage work, Fort Dodge, Ia.........Mar. 2
Mar. 22. Concrete foundation, Detroit, Mich......Mar. 2
Mar. 25. Electric crane, Portsmouth, N. H.........Mar. 2
Mar. 25. Wharf, grading and filling, New Orleans, La. ....Feb. 23
Mar. 27. Riprap embankment, Boston, Mass.......Mar. 2
Advertised, Eng. News, Mar. 2 to 30.
Mar. 28. Coal pocket, etc., Atlantic City, N. J....Mar. 2
Advertised, Eng. News, Mar. 2 and 9.
Mar. 30. Rock excavation, Boston, Mass.........Mar. 2
Advertised, Eng. News, Mar. 2 to 30.
Apr. 1. Dredging, Sweden ....Nov. 24
April 4. Ditch, Fairmont, Minn. ....Feb. 23
Apr. 10. Channel improvement, Bermuda ....Jan. 26
Advertised, Eng. News, Feb. 2.
Apr. 10. Dam, canals, etc., Denver, Colo........Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 30.
Apr. 15. Cruisers, Washington, D. C.............Mar. 2
Apr. 25. Canals, etc., New Orleans, La..........Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
May 1. Light-house, Egypt ....Dec. 22
May 10. Ditching, Stevens Point, Wis.............Mar. 2
No. date. Hauling stone, Catskill, N. Y...........Feb. 16
Advertised, Eng. News, Feb. 16.
No date. Railway extension, Imboden & Odell....Feb. 16
Advertised, Eng. News, Feb. 16 and 23.
No date. Cross ties, Louisville & Nashville Ry....Mar. 2
Advertised, Eng. News, Mar. 2.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BALTIMORE & OHIO.—Company has authorized the purchase of 175 freight locomotives, 35 passenger locomotives, 40 six-wheel switching locomotives, and 10,000 freight cars. Cost will be about $12,000,000.

CINCINNATI, HAMILTON & DAYTON.—It is announced that $9,404,237 will be expended upon improvements; of this amount $5,404,237 will be for equipment, and $4,000,000 for improvements. There will be expended on the C., H. & D. $2,000,000 for improvements and $2,745,659 for equipment; on the Pere Marquette $2,000,000 for improvements and $2,658,578 for equipment. Detailed list is given as follows: On C., H. & D.: 35 freight engines (consolidation type.) weighing 150,000 lbs. on drivers, and nine heavy ten-wheel passenger engines; 25 passenger cars; 22,000 tons of 85-lb. steel rails to be laid between Hamilton and Toledo and between Cincinnati and Indianapolis. New steel bridges to the amount of 1,000,000 lbs., to replace light structures; enlargement of shops at different points and purchase of machinery for same; enlarging and applying new device for handling ore and coal at Lake Port docks; erection of several new stations at various points; new coaling stations at different terminals; reballasting most of the main lines between Cincinnati and Indianapolis and between Hamilton and Toledo; 1,750 box cars, 1,000 gondola coal cars, 25 caboose cars, steel wrecking crane and steel pile driver. For the Pere Marquette: 35 consolidated freight engines, 150,000 lbs. on drivers; 41 passenger cars; 10,000 tons of 85-lb. steel rails; new steel bridges to the amount of 500,000 lbs., to replace lighter structures; erection of several new station buildings; new coaling stations at different points; new ferry ships at Detroit, Mich.; extension and rearrangement of yards at all important terminal points; new

freight-house at Chicago and extension of yards; purchase of new equipment; 1,250 box cars, 1,000 gondola cars, 100 ballast, 150 steel under-frame coal cars and 25 cabooses; completion of new shops and yards at Grand Rapids; new shops at St. Thomas and new freight yards at Buffalo, with roundhouse. C. A. Wilson is Ch. Engr. of C., H. & D., at Cincinnati. F. H. Alfred, Detroit, Mich., is Ch. Engr., of Pere Marquette system.

COAL & COKE.—A. A. Chapman, Ch. Engr., Weston, W. Va., writes us that projected length of this road is 173 miles. Line is completed and track laid from Charleston to Gassaway and from Roaring Creek Junction to Sago. Distance between Sago and Gassaway is under construction. SMITH CONSTRUCTION CO., FERGURSON CONTRACTING CO., of Pittsburg, and JOE FUCCO, of Weston, W. Va., are contractors. There will be 5,800 ft. of tunnels and 30 steel bridges on the entire line. H. G. Davis, 1517 H St., Washington, is Pres.

CORVALLIS & EASTERN.—Robert S. Shaw, Mill City, Ore., has stated, according to report, that the line from Mill City, Ore., to Timber, eight miles, will be built by the Curtiss Lumber Co. Surveys have been completed and grading has been commenced. C. W. Root, Mill City, Ore., is Ch. Engr.; C. Sullivan, Albany, Ore., is Supt. of C. & E.

DENVER & GREAT WESTERN.—Contract has been awarded to J. A. OSNER, of Denver, Colo., for building 40 miles of railway. It is owned by the Colorado Construction Co. Noted on Dec. 29.

DE QUEEN & EASTERN.—G. H. Cravens, Ch. Engr., De Queen, Ark., writes us that extension from Provo, Ark., to Hot Springs will be about 100 miles long. Surveys have been made covering greater portion of distance. Ten miles are under construction now. The line will be built in 20-mile sections as business begins. Capital is available. T. H. SATER has contract for ten miles.

DETROIT SOUTHERN.—In a reported press report Eugene Zimmerman, Pres. Cincinnati, Hamilton & Dayton, states that the C., H. & D. had secured the Detroit Southern and that its intention is to build a bridge across the Ohio River at Ironton and to develop rich coal fields in West Virginia. Samuel Hunt, Telegraph Bldg., Detroit, Mich., is Receiver.

DURHAM & SOUTHERN.—Contract for building this railway from Durham to Apex, N. C., will be let soon. George E. Lemmon is Ch. Engr., at Durham. Route is surveyed.

ILLINOIS, IOWA & MINNESOTA.—I. W. Troxel, Ch. Engr., The Rookery, Chicago, informs us that all contracts have been let for 20-mile extension from Kirkland, Il., to Rockford; 40 miles of line now in operation. The 60 miles of new track are to be completed by Aug. 15, 1905. Contractors are: Grading, DAVID GRAND; other contractors are: GEORGE M. KEPNER, BRAINARD & CHAMBERLAIN, KENEFECK CONSTRUCTION CO., COLLIER BRIDGE CO., and WISCONSIN BRDGE & IRON WORKS. Total length of line from Momence to Rockford via Joliet, Aurora and Dekalb will be 120 miles.

INDIANA HARBOR RY.—Surveys are being completed for an extension of this road, which now has in operation a belt line around the city of Chicago, Ill., and a line from Indiana Harbor, Ind., south to Osborn, six miles. The extension is to run from Osborn through Lake, Newton, Benton and Warren counties, in Indiana, via Hartsdale and Kentland to Danville, Ill., 101 miles. The right of way for the northern part of the line has been acquired. Construction work will begin early this spring. C. W. Hotchkiss, 400 La Salle St., Chicago, is Pres.; B. C. Rich, Indiana Harbor, Ind., is Engr.

KANSAS CITY, NEVADA & SPRINGFIELD.—Thomas P. McDonough, Pres., 211 Tacoma Bldg., Chicago, writes us that line will be 75 miles long, extending from Nevada, Mo., via Monticello, Jerico, Arcola, Dadeville and Ashgrove to Springfield. Preliminary surveys have been made. Definite location line will be run at once. Right of way will be donated. Capital has been secured. Contracts will be let as soon as possible, about April 1. Fred. J. Smith, Chicago, is Ch. Engr.

KENTUCKY.—Irving H. Wheatcroft, of Dixon, Ky., owner of coal mines at that place, is preparing to build a railroad from Lisman, Ky., on the Illinois Central, to Providence, about eight miles. Surveys have been completed and the right of way has been secured.

LOUISVILLE, CUMBERLAND & CHATTANOOGA.—This railway, we are informed, will be 300 miles in length and will run through Tennessee coal fields on Cumberland plateau. J. Francis Le Baron, 812 Park Bldg., Cleveland, O., is Ch. Engr.

LOUISVILLE & NASHVILLE.—A steel incline structure is to be built at Cincinnati to connect the west side of the company's Ohio River bridge with the surface line on the river bank, in order to obtain access to the extensive new freight terminals.

LOUISVILLE & NASHVILLE.—The Louisville & Nashville Ry. Co. will contract for the delivery of 50,000 cross ties in Atlanta, Ga., and for 50,000 cross ties in the city of Cartersville, Ga. J. E. Willoughby, Engr. of Const., Knoxville, Tenn., is to be addressed. (Advertised, Engineering News.)

MALAD VALLEY.—William Ashton, Ch. Engr., Salt Lake City, Utah, writes us that location surveys have been run and right of way secured. Capital has been arranged for. Contracts for grading probably will be let within 30 days. This road will be 32 miles long. It will run from Garland, Utah, to Malad City via West Portage. The line will be owned and operated by the Oregon Short Line Ry. Noted on Feb. 2. W. H. Bancroft, Salt Lake City, is Pres.

MIDLAND VALLEY.—F. A. Molitor, Ch. Engr., St. Louis, advises us that the line has been built from Hartford, Ark., to Tulsa, Ind. T., 183 miles, and from Tulsa to Shiatook, Ind. T., 16 miles; 100 miles are under construction, from Skiatook to Kansas. KAHMANN & McMURRAY BROS., of Kansas City, Mo., and MANEY BROS., of Oklahoma City, Okla., have contracts, as noted last week. This extension will be completed, probably, in nine months, and as far as Pawhuska, Okla., by September. C. E. Ingersoll, Philadelphia, is Pres.

MINNESOTA & INTERNATIONAL.—A. GUTHRIE & CO., of St. Paul, Minn., have been awarded contract for 30-mile extension to Big Fork River. It is planned to extend line from Northhome, Minn., to Koochiching or International Falls, ultimately. W. H. Gemmell, St. Paul, is Gen. Mgr.

MISSISSIPPI CENTRAL.—M. H. McCabe, Supt., Hattiesburg, Miss., writes us that eight miles have been surveyed on proposed extension from Hattiesburg to Vicksburg. Contracts will be let at once. The line will be 28 miles long. Joseph Archibald, Silver Creek, is Ch. Engr.; F. L. Peck, Scranton, Pa., is Pres. Capital has been secured for building.

MISSOURI RIVER & NORTHWESTERN.—Francis C. Tucker, Ch. Engr., Silver City, S. Dak., informs us that WILLIS & DETWITER, Chemical Bldg., St. Louis, have grading contract. Right of way secured and materials contracted for. Full particulars given on Feb. 16. C. D. Crouch, 650 Railway Exchange Bldg., Chicago.

MISSOURI PACIFIC.—An extension will be built, according to report, from Lenora, Kan., to Denver; $50,000,000 of bonds has been authorized.

NEW ORLEANS & MISSISSIPPI MIDLAND.—Col. James McNaught, 35 Nassau St., New York, is promoting this line, we are informed. C. S. E. Babington, New Orleans, is acting Pres., and F. A. Little, Cleveland, O., is Engr. The railway will be 250 miles long, extending from New Orleans to Kosciusko, Miss., via Columbia, Miss., Forest, Harperville and Carthage. Gen. T. M. Miller, 824 Common St., New Orleans, is Counsel. No contracts have been let. Noted on Jan. 26.

NORTHERN MAINE SEAPORT.—Moses Burpee, Ch. Engr., Houlton, Me., has stated that this road, which will be a branch of the Bangor & Aroostook, has been surveyed from Lagrange to Belfast, Me., 65 miles. The route is via Alton, Bradford, Hudson, Glenburn, Hermon, Hampden, Winterport, Frankfort, Prospect, Stockton and Searsport. Formerly noted.

NORTH DAKOTA.—A. B. Fox, Pres. Brazil Grain & Shipping Co., Brazil, N. Dak., has stated that this company expects to build a railroad to connect with Great Northern Ry. near Pleasant Lake, N. Dak.

OKLAHOMA.—The J. E. Hutt Contracting Co., with its headquarters at Guthrie, has been chartered with a capital stock of $50,000. Company will furnish labor for railroad building and contract for the construction of railroads. The incorporators of the company are: J. E. Hutt, of Lawrence, Kan.; Milton D. Henry, Guthrie; Thomas S. Rollo, Cleburne, Tex.; Peter Laptad, Lawrence, Kan.; Harry E. Allen, Cushing; Edward F. Hutt, Lawrence, and C. H. Woods, of Guthrie.

OHIO.—D. C. McCready, Carlisle Building, Cincinnati; D. D. Flanagan of College Hill and Otto Germer of Erie, Pa., are reported to be organizing a syndicate to develop 20,000 acres of mineral lands in Breathitt and Perry counties, Kentucky. It is planned to build 14 miles of railroad. Edward Germer and Charles Ebisch, both of Erie, Pa., are also said to be interested.

PENNSYLVANIA LINES.—The engineering department and track elevation bureau of Cincinnati, O., have prepared plans and specifications for the track elevation of the Pennsylvania Lines in the east end of the city, and an ordinance covering this work will soon be submitted to the city council.

George W. Snyder, Asst. Engr., Pittsburg, informs us that contracts have been let for grade changes and track elevation in Pittsburg. The freight track on Liberty St. to Duquesne freight station is to be removed and a viaduct built above Duquesne Way between these points. Work is in charge of William H. Brown, Ch. Engr.

PENNSYLVANIA RY.—It is stated by Philadelphia newspapers that $23,000,000 will be spent by the Pennsylvania Co. this year. This is to be for new rolling stock and equipment, principally.

PINEVILLE & NORTHERN.—John B. Christensen, Pineville, Mo., informs us that company will build a 40-mile line to Monett.

PRINCETON & WISCONSIN RIVER.—This line will be built this summer, it is said, from Princeton to Necedah, Wis. William Bannerman, of Berlin, Wis., is interested. Walter S. Syrett, Chicago, is Pres. It will cost about $900,000.

QUEBEC & LAKE ST. JOHN.—A. E. Doucet, Ch. Engr., Quebec, Que., writes us that projected length of branch from La Tuque Junction to La Tuque Falls on Maurice River will be 41 miles. Work has been begun on 20 miles of the line. It is planned to lay ten miles of track by July.

RALEIGH & PAMLICO SOUND.—J. M. Turner, Pres., Raleigh, N. C., informs us that 12 miles of line have been graded eastward from Raleigh, and 5½ miles of track laid. The proposed line is from Raleigh to Washington, N. C., 112 miles. Entire line has been located and 70% of right of way secured. Capital has been secured. Company is doing its construction work.

ST. LOUIS SOUTHWESTERN.—M. L. Lynch, Ch. Engr., Tyler, Tex., informs us that surveys are in progress from end of Lufkin division track in a southeastern direction for a distance of about 55 miles. This extension will be built soon.

SCRANTON, FACTORYVILLE & TUNKHANNOCK.—Company will build from Scranton to Tunkhannock, Pa. J. Selden Swisher, James P. Dickson and C[illegible] D. Sanderson, of Scranton, are interested.

SOUTHERN.—W. J. OLIVER, of Knoxvill[illegible] [illegible] contract for double-tracking line from Armo[illegible].

TEXAS.—J. K. Beretta, Laredo, Tex., [illegible] nothing has been done yet regarding proj[illegible] between Laredo and Rio Grande City.

TONOPAH RY.—McLEAN & McSWEE[illegible] to have been awarded contract to build [illegible] to Goldfield, 27 miles. Noted on Feb. 9.

UNION PACIFIC.—It is announced [illegible] automatic electric block signals will be [illegible] equipment has been ordered. It will cost about $[illegible].

WESTERN ALLEGHENY.—Emmet Queen, Pres., Pittsburg, Pa., has announced that the extension of this road from Queen Junction to New Castle, Pa., will be 30 miles in length. Contracts are to be awarded at once. H. T. Porter, Greenville, Pa., is Ch. Engr.

WESTERN PACIFIC.—Construction work on Oroville extension will be undertaken at once, it is reported. $50,000,000 of bonds will be issued to provide for this work and for contemplated improvements. G. L. Dillman, Safe Deposit Bldg., San Francisco, Cal., is Ch. Engr. Surveys are completed.

MacArthur Bros., of Chicago; Kilpatrick Bros., the Utah Contracting Co. and Lantry Bros. will submit estimates on cost of construction in Feather River Canyon. It is reported that this section of the Western Pacific will cost $15,000,000 to grade.

WISCONSIN.—Hugo Lowenbach, Milwaukee, Wis., writes us that the Merchants' and Manufacturers' Association of Milwaukee has appointed a committee to consider at once the project to build a belt line railway in Milwaukee.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

HAMILTON, MASS.—The Railroad Commissioners have formally approved of the election granted by different local Boards of Aldermen and Selectmen to the Hamilton & Boxford and Maplewood & Danvers Street Ry. Cos., that are seeking the building of a new line from Hamilton to Boston.

MALDEN, MASS.—The Linden Improvement Association has appointed a committee to secure an extension of Boston elevated road on Lynn St., from Everett [illegible] [illegible]arn to Linden Sq. Committee: Ed. Hawkridge, Fr[illegible] Elwell and C. A. Westcott. Arthur L. Plimpton is [illegible] Engr., Boston.

WORCESTER, MASS.—Boston & Worcester [illegible] Railway directors have voted to complete the dou[illegible] [illegible]ck by building five miles between Framingham and [illegible]boro; also to build 1½ miles into Natick, at a cost [illegible]. E. H. Kitfield is Consult. Engr., 53 State St., [illegible].

HARTFORD, CONN.—The Hartford Stre[illegible] Co has petitioned the Legislature for an increas[illegible] capital stock from $2,000,000 to $5,000,000. The addi[illegible] stock is desired to provide for extending its tra[illegible] also to provide additional carshops and to meet the [illegible]pany's share of the cost of new bridge across Conn[illegible].

LIMA, N Y.—It is reported that the W[illegible] Ohio Ry. Co. is planning to build a line betwe[illegible] and Findlay. F. T. Carpenter is Gen. Mgr., Cleve[illegible].

NEW YORK, N. Y.—At a meeting of Board of Directors of the New York, Westchester & Boston Ry. Co., Feb. 23, Andrew Freedman, a Director of In[illegible]borough Rapid Transit Co., was elected to the Westche[illegible] Board. John B. Jackson, Pres. Fidelity Title & Tr[illegible] Co., of Pittsburg, Pa., has also been elected to Board of Directors. The full Board, as now constituted, is as follows: Wm. Lanman Bull, Pres.; Evans R. D[illegible]; Samuel Hunt, Vice-Pres.; Chas. E. Lewis, New York; John B. Jackson, Pittsburg, Pa.; John R. McAllister, Philadelphia, Pa.; Wm. Barclay Parsons, Engr.; Robt. C. Pruyn, Albany; Robt. E. Robinson, [illegible]ederick E. Whitridge, New York; Andrew Freedman, Wm. H. Buckley, New York; H. Carroll Winchester, Secy., New York. For purposes of building the road, the engineering corps has been practically completed as follows: Wm. A. Pratt, formerly chief engineer of Staten Island Rapid Transit Railroad, will be the chief engineer. The consulting engineers will be Wm. Barclay Parsons, formerly engineer of the Rapid Transit Commission, and John Bogart, formerly state engineer. Geo. Tatnall, has been engoged as principal assistant engineer. He will have charge of all general engineering matters under supervision of Chief Engineer. He has been for the past 23 years with the Pennsylvania Railroad in its design and construction departments. James Leland Crider has been chosen as division engineer of that portion of line in the Borough of Bronx, and the "Annex" district. He will have immediate charge of Field Corps on location and construction. To accept this position, he resigns the general direction of elevating tracks and eliminating grade crossings of the Baltimore & Ohio Railroad in Pittsburg. E. V. Maitland, who has had charge of the work of elevating Pennsylvania Railroad tracks through the cities of Chester and Wilmington, will be resident engineer in Borough of Bronx. E. B. Naylor, who has been engineer in the construction of Subway Tunnel for rapid transit subway under Harlem River, is to be resident engineer in charge of Branch of the road from city limits to White Plains. On March 1 a corps of engineers will be put to work in laying out details of the line between the city limits and Portchester. The names of engineer of structures and electrical engineer, as well as additional resident engineers, will be announced shortly.

SYRACUSE, N. Y.—The Rochester, Syracuse & Eastern R. R. Co., which is building an 80-mile double track electric railway between Rochester and Syracuse, has just let contracts which call for the completion of first 36 miles of road, from Rochester to Clyde. The two latest contracts are those to J. G. WHITE & CO., 49 Exchange Place, New York, for laying of track, and to J. M. & C. J. BUCKLEY, 67 Harrison St., Worcester, Mass., for construction of power house at Lyons. Previously mentioned.

PATERSON, N. J.—We are informed that this city will shortly take up application of New York & North New Jersey Traction Co. for a franchise. H. J. Harder is Cy. Engr. and John Keegan is Cy. Clk.

BELLEFONTE, PA.—The Bellefonte Traction Co., care of J. C. Meyer and J. W. Conley, State College, Pa., will soon start work on an electric railway from Bellefonte to Milesburg and State College, a distance of 13 miles. Power will be located at this place. Contract for construction and equipment not yet placed.

CLIFTON HEIGHTS, PA.—Survey for proposed trolley line from this borough to 63d and Market Sts., Philadelphia, is completed. The new line will run through Garrettford and over Darby Creek near Kent's Mills and out to Glenwood Ave. It is rumored that the new company will erect its power house in Clifton Heights.

HARRISBURG, PA.—Among the charters granted at State Department recently were the following: Rohrerstown, Landisville & Mount Joy Electric Ry. Co., capital $60,000, to build ten miles of line from Rohrerstown to Mount Joy. Chas. K. Keller, of Lancaster, is Pres. The Waynesburg Street Ry. Co., capital $12,000, to build two miles of line from Waynesburg to Morrisville. W. R. Scott, of Waynesburg, is Pres.

NORRISTOWN, PA.—New York and Philadelphia capitalists are said to be interested in a plan to build a trolley line from this borough to Harrisburg, the first section to be built extending from Norristown to Ephrata, a distance of about 55 miles. Surveys will be started as soon as weather permits. The road when completed will have a total length of 90 miles.

SCRANTON, PA.—The Scranton Ry. Co. will build new lines this year to connect North and West Scranton, North Scranton and Dunmore. It is also understood that the company will lay a double track on North Main Ave., when that thoroughfare is paved, the measure for which is before the City Councils. When the new Sanderson Ave. bridge is completed a track will be laid through the old Driving Park to connect Green Ridge with Providence lines. E. D. Reed is Engr.

SCRANTON, PA.—The Scranton, Factoryville & Tunkhannock R. R. Co. is now ready to begin work on an electric railway between Scranton, Lake Winola and Tunkhannock. The Imperial Trust Co., of Jersey City, N. J., has advanced $2,000,000 on mortgage of Railroad Co. Work to commence at once. J. Selden Swisher is Pres.

BIG STONE GAP, VA.—An electric railway system will be built connecting Inman, Big Stone Gap, Appalachia, Norton and other mining centers in Wise County. W. S. Coldiron is interested. Previously mentioned.

SPARTANBURG, S. C.—A new railroad will be built connecting Union, Spartanburg and Gaffney. A. N. Wood, of Gaffney, and J. B. Cleveland, of this city, are the promoters.

NEW ORLEANS, LA.—We are informed by W. J. Hardee, Cy. Engr., that a franchise has been sold for an electric street car line to extend from Gretna to McLellanville, a distance of about four miles. Work of construction will be started at an early date.

MEMPHIS, TENN.—Application has been filed here for a charter of Memphis Street Railway Extension Co., which asks for privilege of extending line over any street in which the present street railway company holds the right of way and of buying capital stock, bonds or other securities of any other company that may enter this field. The capital stock is fixed at $50,000. The application is signed by Frank G. Jones and others.

JACKSON, TENN.—The building of a railroad from this city to Dyersburg is contemplated and a preliminary survey will probably be made at an early date. A committee, consisting of R. F. Spraggins and W. H. Biggs, was appointed to corespond with construction companies and attend to other preliminary arrangements.

LORAIN, O.—The Lorain Street Ry Co. has applied to city for franchise to extend its lines on Tenth and 13th Aves. T. S. Cornell is Ch. Engr.

ZANESVILLE, O.— A charter has been granted by the State Department to the Zanesville, Coshocton & New Philadelphia Ry. Co., with $10,000 cap. stock. The road, which will be operated by electricity, will pass through Muskingum, Coshocton and Tuscarawas Counties. Incorporators: J. W. Cassingham, W. F. Stanley, G. A. Hay and others.

ROCKPORT, IND.—Surveys are under way for location of a line of Indianapolis & Ohio Valley Traction Co., from Rockport to Cannelton, Ind., via Grandview, Newtonville, Troy and Tell City. Later on a line will be located from Junction, between Rockport and Cannelton to Indianapolis. J. H. Larimer, Indianapolis, Ind., is Pres.; Butler Smith, Indianapolis, is Ch. Engr., and Will Duncan, Rockport, Ind., is Locating Engr.

WABASH, IND.—The Ft. Wayne & Wabash Valley Traction Co., operating between Ft. Wayne and Logansport, has authorized an issue of $1,000,000 in bonds. The money will be used in building a new power house at Wabash, putting the entire line into good condition and buying more equipment. M. J. Kehoe is Ch. Engr., Ft. Wayne.

EAST ST. LOUIS, ILL.—Articles of incorporation have been filed with Secretary of State, of the East St. Louis, Waterloo & Chester Suburban Ry. Co. Capital, $25,000. It is proposed to construct a railroad from East St. Louis to Waterloo and Chester, all in Illinois, passing through counties of St. Clair, Monroe and Randolph. Incorporators and first board of directors are Thomas M. Chase and Tyron J. Woodward, of St. Louis, Mo.; James P. Slade and A. P. Garrett, of East St. Louis, and Ed. F. Schonening, of Columbia, Ill.

MILWAUKEE, WIS.—The Milwaukee Electric Ry. & Lighting Co. has increased its capital stock from $500,000 to $1,000,000, to provide for extensions contemplated this year. John I. Beggs is Pres. and Gen. Mgr., City; Silas W. Burt is Secy., 30 Broad St., New York.

DES MOINES IA.—A. E. Park, of Chicago, Ill., according to reports, is projecting an electric railway between Des Moines and Creston.

EXCELSIOR, MINN.—The Town Council has rescinded the franchise recently granted to E. J. Phelps, and F. E. Kenaston, of Minneapolis, and others, for an electric railway from Mankato to Minneapolis.

OMAHA, NEB.—The contract for building the Omaha, Lincoln & Beatrice Electric Railway, P. E. Iler, Pres., has been let to the ROSS CONSTRUCTION CO., of Chicago, Ill. The Ross Co. will excavate the right of way, lay rails and furnish a considerable part of equipment. Work will begin as soon as weather permits.

WATERTOWN, S. DAK.—Articles of incorporation have been filed for Watertown Transportation Co. at Watertown, formed for the purpose of constructing a ten mile electric line to Lake Kampeska. It is capitalized at $100,000, and incorporated by Chas. Hamilton of Chicago, Percy Cocks of Brooklyn, O. C. Berg of Redfield, and Alfred L. and Wm. D. Rowe of Watertown.

WEST PLAINS, MO.—We are informed that the Ozark Mountain Electric Ry. Co. has been incorporated under the laws of Illinois, to construct and operate an electric railway from Rolla, Mo., to White Plains, a distance of about 100 miles. E. W. Hartman is Pres., East St. Louis, Ill.

McKINNEY, TEX.—An electric railway will be built out of McKinney. Hunter Woodson is the promoter.

WACO, TEX.—An electric railway will probably be constructed from this city, via Mart, to Mexia. Secretary of Business Men's Club can inform.

CHICKASHA, I. T.—At a recent meeting of City Council an application was made in behalf of Chickasha Traction Co. for a franchise to operate an electric street railway system in the city. The company agrees to begin at an early date after the granting of franchise and to have a certain number of miles of track in operation within a year. It is believed that the franchise will be granted. The Mayor can give information.

CANON CITY, COLO.—City Council has granted a franchose to Geo. W. Baumhoff for construction of an electric railway system in this city. Work must be begun within 90 days and at least two miles in operation within 18 months of granting of franchise.

DELTA, COLO.—A franchise has been granted to build an electric line about 100 miles long through Delta County. W. B. Stockham and C. L. Pike, of Delta, are interested.

EVERETT, WASH.—An incorporation has been formed at Everett with a capital stock of $2,000,000, to build an electric railway from Everett to Bellingham. Incorporators: Chas. W. Taylor and R. W. Jacobus, eastern capitalists, and Dr. J. E. Stauffer and Wm. M. Ross of Everett. The company proposes to purchase right of way the entire distance. It is claimed the funds for construction of road have all been provided for.

LOS ANGELES, CAL.—Bids are asked by Board of Supervisors until March 21, for sale of franchise for an electric railway on Indiana St.

SANTA BARBARA, CAL.—An ordinance has been adopted by Board of Trustees granting to E. W. Clark and assigns, the right to construct and operate a street railway along certain streets in Santa Maria, along certain portions of County road of Santa Barbara from Santa Maria to Guadalupe and in town of Guadalupe. C. A Hunt, Clk.

STOCKTON, CAL.—The Stockton Electric R. R. Co. has perfected plans for rebuilding its line. Cost $300,000. Henry H. Lynch Engr., is in charge. Frank W. Webster is Gen. Mgr.

BOISE, IDAHO.—W. E. Pierce has applied to City Council for franchise to construct an electric railway in Boise.

VANCOUVER, B. C.—The Lulu Island Railroad, a steam road owned by Lulu Island Ry. Co., of Vancouver, and formerly operated by Canadian Pacific Ry. Co., will be transformed into an electric line and will be operated by British Columbia Electric Ry. Co., of Vancouver. J. Buntzen, Gen. Mgr. Steps are being taken to equip the line with electric rolling stock.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MAINE.—United States Geological Survey has prepared report of undeveloped water power in this state. The State Survey Commission consists of Prof. L. A. Lee, of Brunswick; Hon. Chas. H. Hichborn, of Augusta, and Hon. William Engel, of Bangor.

ELLSWORTH, ME.—It is reported that the Bar Harbor & Union River Water Power Co., of Bar Harbor, Me., will be reorganized to build a 60-ft. dam on Union River, near Ellsworth. M. B. Salisbury, Bar Harbor, is Ch. Engr.

SHEFFIELD, MASS.—The Sheffield Light & Power Co. has been chartered, with $5,000 capital. Samuel M. Fox, Sheffield, is Pres. and Mgr. Albert L. Barnes is Secy.

WATERBURY, CONN.—The Naugatuck Valley Water Co. will be incorporated by John H. Whittemore, Franklin Farrell, Charles F. Brooker, George A. Lewis, David S. Plume, Edward L. Frisbie, Jr., and Edward O. Goss. Company will develop water power of the Naugatuck River and tributaries, and construct dams, aqueducts, etc., along the river. Its capital stock is to be $500,000.

NEWARK N. J.—The legislative committee of the common council has authorized City Attorney Malcolm MacLear to secure, if possible, an amendment broadening the scope of Assembly bill No. 44, introduced by Assemblyman T. C. Elvins, of Atlantic County, to make possible municipal ownership of electric lighting plants in townships. Steps will be taken to build a city power and lighting plant here, if authority is granted.

NEW YORK, N. Y.—Bids are asked by John W. Brannan, Pres. Bd. Trustees Bellevue and Allied Hospitals, 26th St. and First Ave., until March 21, for the excavation, mason, carpenter, steel, plumbing, electric, heating and ventilating and other work for the ambulance station and power-house for the new Harlem Hospital, situated on Lenox Ave. and 136th and 157th Sts.

BALTIMORE, MD.—The United Railways & Electric Co. will erect a new concrete power house, 134 × 136 ft., on East Pratt St., on site of old station.

NAOMIPINES, PA.—F. L. Olds, Arch., Wilkesbarre, will prepare plans for an electric light plant at this place for the Naomi Pines Assembly. It is said that complete electrical equipment will be required.

PITTSBURG, PA.—THE NATIONAL ELECTRIC CO. of Milwaukee, Wis., has been awarded the contract for the installation of electric equipment for the power house of the new Carnegie Institute. Cost, $27,000.

ARDMORE, PA.—The Merion & Radnor Gas & Electric Co. will build an addition to its gas plant here, it is reported. A new holder, with 500,000-ft. capacity, will be installed.

OXFORD, PA.—Bids are asked by James D. Burn, Secy., Oxford, Pa., and the York Engineering Co., Engrs., York, Pa., for complete equipment for gas plant, including boilers, pumps, gas-producing apparatus, gasometer and all piping, which will include about 2½ miles of cast-iron pipe from three to eight inches in diameter. Plans and specifications can be seen after March 10 at office of secretary or engineers.

WASHINGTON, D. C.—S. L. Shober, Jr., George W. Truesdell, George W. Young, R. T. W. Duke, Jr., H. W. Fuller and George W. Harris, have applied for charter for the Economic Heating & Refrigerating Co., with $1,000,000 capital, to establish a central plant for supplying private consumers with hot or cold air by a system of pipes.

Professor S. Homer Woodbridge, of Massachusetts Institute of Technology, Boston, writes us that the matter of building a central power lighting and heating plant on Mall for group of executive federal buildings is now before Congress. A central plant is also contemplated for Congressional group of buildings on Capitol Hill, for Capitol, House of Representatives office building, Senate office building, Library of Congress, proposed Supreme Court building. Probable cost, $1,400,000. Prof. Woodbridge is Engr.-in-Charge, associated with Bernard R. Green, Supt. Library Bldg. and Grounds.

WASHINGTON, D. C.—Paul Morton, Secy. Navy Dept., has approved plan of power plant consolidation at navy yards and stations. He has advised Mordecai T. Endicott, Clk. of Bureau of Yards and Docks that the work of centralizing will be carried on under that bureau. The work will be done gradually, it is said, and will probably be undertaken first at such places as Portsmouth, N. H., Bremerton, Wash., and Charleston, S. C.

CHARLESTON, W. VA.—It is reported that the Philadelphia Co., of Pittsburg, Pa., will begin this year the construction of 125 miles of pipe line for conducting natural gas from the West Virginia fields to the city of Pittsburg. The cost is estimated at about $1,500,000. The piping probably will be from 6 to 16 ins.

HARPERS FERRY, W. VA.—It is reported that Stevenson A. Williams, of the Martinsburg Electric Co., Martinsburg, W. Va., is promoting a new company which will purchase the old pulp mills near Harpers Ferry. An electric plant will be erected at this point in connection with a belt line trolley system in the Cumberland Valley. W. W. Housewort, Martinsburg, is Mgr. Martinsburg Elec. Co.

ANDREWS, N. C.—The Andrews Light, Water & Power Co. has been incorporated to build water-works, electric light and power plant at Andrews. Capital, $100,000. J. Q. Barker, E. G. Henneman and others are interested. We are informed that date for receiving bids on this work has not been fixed upon.

LOWELL, N. C.—It is reported that the Spencer Mountain Mills Co. will develop water power on the Catawba River. Ladshaw & Ladshaw, of Spartanburg, S. C., are Engineers-in-Charge.

SANFORD, N. C.—An electric light plant is to be sold at public auction March 10. It includes franchises for Sanford, N. C., (population, 3,000), and Jonesboro, N. C., two miles distant, with a population of 1,000. It is stated that plant is now in profitable operation. For information address D. E. McIver, Comr., Sanford.

DALLAS, N. C.—City will petition the legislature to authorize an election to vote on the issuance of $5,00 of bonds to install system of electric lights.

CALHOUN FALLS, S. C.—Joseph E. Sirrine, Engr., Greenville, S. C., has prepared plans for power dam and plant at Cherokee Shoals for Savannah River Power Co. Mr. Sirrine writes us that no contracts have ben let for materials. Bids will be received in April. Estimated cost of plant about $600,000.

ALACHUA, FLA.—T. B. Stringfellow, of Jacksonville, is reported interested in plan to build an electric light plant here in connection with water-works.

SYLACAUGA, ALA.—City council has disposed of $20,000 of bonds. As soon as practicable the work of putting in an electric-light and water-works plant will be commenced.

FAYETTEVILLE, N. C.—It is said that city contemplates enlarging electric light plant at a cost of $30,000.

STURDEVANT, ALA.—Ausfeld & Chapman, Engrs., Montgomery, Ala., write us that they are preparing plans for the water-power and electric plant to be erected on Tallapoosa River near Sturdevant. The Tallapoosa Water Power & Electric Co. has been incorporated by Ausfeld & Chapman and Mrs. R. T. Parker, of Dadeville. The proposed plant will cost about $500,000. As soon as plans are completed, we are informed, the engineers will take bids on construction of plant and dam. The power developed will be used for manufacturing purposes only.

WIGGINS, MISS.—The Wiggins Electric Light Co., with $10,000 capital, has been incorporated here by W. H. Rowan and others.

PASS CHRISTIAN, MISS.—Bids were received on March 1 by George P. Brandt, Town Clk., for lighting streets with electricity.

SHELBYVILLE, TENN.—Contractors are asked to submit estimates on installation of an electric light plant. H. L. Woosley may be addressed.

JOHNSON CITY, TENN.—The board of mayor and aldermen has decided to petition the Legislature for permission to issue $250,000 of bonds for the construction of water-works or the purchase of the local system, and $50,000 for erecting an electric light plant.

LAWRENCEBURG, KY—The Lawrenceburg Electric Light Co. has been organized. J. M. Johnson is Pres.; vice-Pres., E. W. Ripy; Secy., Dr. C. A. Leathers; Treas., R. S. Collins.

STEUBENVILLE, O.—Council has under consideration the question of constructing a municipal electric light plant, to cost $180,000. F. S. King is City Auditor.

MILFORD, O.—An ordinance has been introduced in council granting a 25-year franchise to E. W. Rugg and J. K. Buckingham to construct an electric light and power plant here.

LAFAYETTE, IND.—Business men of this city are reported to have asked Isham Randolph, Engr. Sanitary Dist. of Chicago, Ill., to inspect the Wabash River at Lafayette, with a view to determining the possibility of developing electric power for the construction of a dam. Estimated cost, $5,000,000. Henry A. Taylor, of Lafayette, Pres. American National Bank, is reported interested.

ALEXANDRIA, IND.—The Alexandria Light & Power Co., is reported to be having plans prepared for a steam-heating plant, for which two miles of 10-in. galvanized iron pipe and wood preservative insulation will be required. Est. cost, $30,000. Joseph E. Jeffries is Secy.

DETROIT, MICH.—Public lighting commission will ask Board of Estimates for an appropriation of $304,554 for year's work; $171,407 will be used for extensions and improvements; $150,000 of bonds may be issued. Among improvements stated are the following: One 2,000-KW. generator, $70,000; one condenser, $3,400; intake and discharge pipes, $5,400; two wells, $700; one boiler, $6,000; steam and water piping, $1,000; enlarging steam header, $3,525; asbestos covering, $200; buildings and sites for three new sub-stations, $9,000; 600 series alternating arc lamps, transformers and regulators to replace direct current Brush lamps and incandescent apparatus for one sub-station, $19,120; 200 series alternating enclosed arm lamps, including regulators and transformers, for new locations, $6,000; installing 20 arc lamps in underground district, $4,800; installing 180 arc lamps on overhead lines, $14,400; 4,831 ft. of conduit, including laying, $9,036; 71,450 ft. of new cable to replace all public lighting commission wires in half-mile circle underground, $18,575. William F. Cullen is Ch. Engr. of city plant; W. M. Daly is Supt.

MARINETTE, WIS.—Plans have been prepared for a new gas plant for this city. Manager Daniell may be addressed. Construction may begin in spring. Cost, $50,000.

CADILLAC, MICH.—Ernest A. Stowe has been elected Pres. of the new Cadillac Gas Light Co. Guy W. Rouse is Secy. Company is capitalized at $100,000, fully paid in. Improvements are contemplated.

MORRISON, ILL.—H. S. Green, Pres. and Mgr. Morrison Electric Lighting Co. has secured the franchise recently to Crawford Bros., of Sterling. He will erect a $40,000 gas plant. The Electric Co. may build a dam across Rock River at Lyndon. $60,000 has been subscribed in connection with this project.

SIOUX CITY, IA.—A charter is stated to have been granted to Tilden & McRoberts, of Chicago, Ill., for a lighting, heating and power plant. Under the terms of the franchise $100,000 must be expended within a year.

IOWA FALLS, IA.—An extension of time has been granted to W. H. Harrison, Jr., of Toledo, Ia., who has franchise to build a gas plant here. Work will begin early this spring.

KANSAS CITY, KAN.—(Argentine Station).—Council has under consideration a natural gas franchise applied for by Witt Adair.

PLATTSMOUTH, NEB.—Directors of Nebraska Lighting Co. have authorized expenditure of $25,000 for improving or rebuilding gas plant. Electric light plant also will be improved.

DEADWOOD, S. DAK.—J. B. Cahoon, Electrical Engr., is in charge of construction work on new plant and power system for new Consolidated Electric Light & Power Co. Noted fully in issue of Feb. 23.

ST. JOSEPH, MO.—The board of public works has let contract for foundations for the engines, dynamos and tunnel for the cables of the new city electric lighting plant at Third and Scott Sts. to METHEIN & WALTER, of St. Joseph, at $887. The foundations are to be of concrete.

Contract for boilers for the plant was awarded to BABCOCK & WILCOX CO., of Philadelphia. W. C. Stewart is Ch. Electrician of city plant.

ST. LOUIS, MO.—Geo. D. Markham, Municipal Assembly, informs us that bill granting franchise to Tri-State Natural Gas & Fuel Co. and Daniel B. Holmes is still before committee on public improvements. The corporation proposes to lay a pipe line from Bartelsville, Ind. T., a distance of 320 miles, to St. Louis. It will build supply tanks and retorts in this city.

POCAHONTAS, ARK.—S. C. Dowell, of Walnut Ridge, is reported interested in the construction of a $25,000 electric light plant at Pocahontas.

TEXARKANA, ARK.—The Texarkana Gas & Electric Light Co., according to a report, will invest $30,000 to $50,000 during 1905 in rebuilding gas works and the installation of water gas system. M. J. Meyer is Engineer-in-Charge. J. R. Cullinane is Mgr. Co.

GAINESVILE, ARK. — Charles W. Moore, Jeremiah Cushman, Geo. I. Doig and John Cushman have incorporated the Gainesville Gas & Electric Co. with $100,000 capital to operate gas and electric light plant.

FORT WORTH, TEX.—It is reported that E. G. Bruckman, vice-Pres., of G. H. Walbridge & Co., 32 Broadway, New York, N. Y., contemplates establishing electric light and power plant in this city.

EL PASO, TEX.—The C. H. Bosworth Co., of Chicago, will improve the gas and electric plants in this city, recently acquired. T. J. Jones is local representative.

EMPIRE, COLO.—Fred G. Shaffer and W. P. Clough, Mayor of Empire, have secured funds, it is said, for constructing water-power plant on Clear Creek. Company promoting project is known as Clear Creek County Power & Irrigation Co

GREELEY, COLO.—The Greeley Gas & Electric Co. has been incorporated, with a capital of $50,000, by Chas. E. Ramsay, Martin A. Bunker, Burton D. Sanborn and others.

LASCRUCES, N. MEX.—B. L. Berkey, of El Paso, Tex., is reported to be interested in plan to build an electric light and power plant and an ice factory here.

FORT GIBSON, IND. T.—D. W. Bolich is engineer in charge of corps surveying section along Grand River which it is proposed to dam. Power will be developed and transmitted to Muskogee, Wagoner, Tahlequah and other cities. A large power plant will be built. Estimated cost, $1,000,000.

SOUTH BEND, WASH.—J. M. Etnier has been granted a franchise to furnish electric light and power to city for 45 years. B. N. Foy is Ch. Engr., of local company, the South Bend Electric Co.

PORTLAND, ORE.—The Portland Gas Co. will build a new tank with capacity of 1,500,000 cu. feet; also outbuildings for the manufacture of gas for storage. Total cost of improvements will be $200,000. Contracts will be called soon.

COLTON, CAL.—It is planned to erect electric lighting and power plant at Colton. City Trustee Knox has stated that the Board of Trustees may install a steam plant, dynamo to generate power necessary for the town. Estimated cost, $40,000.

SAN FRANCISCO, CAL.—E. J. De Sable, Jr., Pres.; John Martin, 1st Vice-Pres., of the California Gas & Electric Corporation and others have purchased 40 acres of land in San Mateo county on the bay shore near the Seven-Mile House and will erect a plant for supplying electric power to the United Railroads Co. of San Francisco, and to other parties. Gas will also be manufactured for the operation of gas engines. John A. Britton is Gen. Mgr.

VANCOUVER, B. C.—The British Columbia Electric Railway Co. will erect a new gas holder with 150,000 cu. feet capacity during the year; company also will lay about 14 miles of new mains. R. H. Sperling is Gen. Supt.; Wyn Meredith is Consulting Engr.

OWEN SOUND, ONT.—Bids are asked until March 17 for purchase of $15,000 of gas plant improvement bonds and $10,000 of electric light plant improvement bonds. A. J. Spencer, Town Treasurer.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

WATERTOWN, MASS.—W. F. Learned, Town Engr., writes us that bids will probably be opened in July for construction by concrete and steel bridge, to be built at a cost of $50,000.

PITTSFIELD, MASS.—The Board Public Works will recommend to Finance Committee that a new iron bridge be built over Boston & Albany tracks on Second St. Est. cost, $15,000. A. A. Forbes is Cy. Engr.

SPRINGFIELD, MAS.—The New York Central R. R. Co. is planning to construct a new railroad bridge across Connecticut River to replace present railroad bridge. It is understood that proposals will be asked for in the near future. G. A. Berry is Engr. Bridges, New York.

BIG FLATS, N. Y.—The Town Board has been authorized to issue bonds for $25,000 to build a bridge across Chemung River.

CARMEL, N. Y.—It is stated that bids are wanted by Commissioner of Highways for erecting an iron and stone bridge 75 ft. long over railroad tracks.

SYRACUSE, N. Y.—We are informed that plans are being prepared by Henry Van Alstyne, State Engr., for a hoist bridge over Oswego Canal at Willow St., Syracuse. The bridge is to be built in conjunction with city.

BUFFALO, N. Y.—We are informed that the following bids were received Feb. 22, for constructing substructure of bascule bridge at Ohio St.; (a) gross sum; (b) rock and earth excavation per cu. yd.; (c) dry dock wall, including earth excavation and crib formation: Bardol & Roberts, 400 D. S. Morgan Bldg., (a) $59,260, (b) $3, (c) $19; Buffalo Dredging Co., Morgan Bldg., (a) $67,500, (b) $3.85, (c) $34; Miller & Franklin, (a) $73,400, (b) $7, (c) $45; Jas. F. Stabell Co., 1127 Niagara St., (a) $76,190, (b) $7.20, (c) $36.40; Pittsburg (Pa.) Steel Const. Co., (a) $94,000, (b) $7, (c) $55. Gross sum includes all necessary work for substructure. Unit prices for rock dredging and dry wall are for use in case channel and dock line are changed as now contemplated. Geo. H. Norton, Asst. Engr., Bureau of Engineering.

WYALUSING, N. Y.—It is announced that the contract for bridge 750 ft. long, over Susquehanna River at Wyalusing has been let to the SENECA CONSTRUCTION CO., of Elmira, N. Y., and that work will commence at once.

WATERTOWN, N. Y.—We are informed that Henry E. Baker, Cy. Engr., is to make estimate on probable cost of viaduct bridge, which is to be about 850 ft. long and at least 50 ft. wide. The matter has been agitated for some time but no definite decision has been reached.

PERTH AMBOY, N. J.—W. G. Besler, Gen. Mgr., Central Railroad of New Jersey, New York, is reported as stating that a new bridge will be built over Raritan River between Perth Amboy and South Amboy next summer. It will be constructed west of present railroad structure and will cost between $500,000 and $1,000,000. J. O. Osgood is Ch. Engr., Jersey City.

TAMAQUA, PA.—The Tamaqua & Lansford Street Ry. Co. will build an overhead bridge on its Middleport extension west of Buckville Grove. W. T. Zehner is Supt. and Engr., Lansford, Pa.

JOHNSTOWN, PA.—Lee Masterton, Cy. Engr., informs us that the building of an overhead bridge in the 12th Ward has only been projected, nothing as yet having been done toward its construction.

SUNBURY, PA.—County Commissioners awarded to YORK (PA.) BRIDGE CO. the contract for building new steel bridge over north branch of Susquehanna River, for $65,125.

CULPEPER, VA.—We are informed that the following were the three lowest bidders for constructing superstructure of a steel bridge, 224 ft. long, across Rapidan River; bids opened Feb. 20: Joliet (Ill.) Bridge & Iron Co., $2,580; Morava Construction Co., Marquette Bldg., Chicago, Ill., $2,885; Illinois Bridge Co., Monadnock Block, Chicago, Ill., $2,888. A. F. Brown is Town Engr.

COLUMBUS, GA.—Bids are asked by County Commissioners until April 4, for building two steel highway bridges and piers across Randall's Creek. One to be 110 ft. long with steel approach 54 ft. and the other 125 ft. long with steel approach 54 ft. Wm. Reed, Jr., County Clk.

BESSEMER, ALA.—Wm. J. Parkes, Cy. Engr., informs us that the proposed viaduct at Tenth St. will be erected by Birmingham Railway, Light & Power Co., and that the contract has already been let. J. W. Wilkenson is Ch. Engr., Birmingham. Previously mentioned

YAZOO CITY, MISS.—It is stated that bids will be received by Board of Supervisors until March 6, for constructing a steel bridge over Beaver Creek. S. S. Griffin, Clk.

WEST POINT, MISS.—Bids are asked until March 6 for constructing a 142 ft. bridge over Little Crane Creek in Dist. No. 5. S. A. Deanes, Chancery Clk.

HATTIESBURG, MISS.—T. E. Batson, Chancery Clk., informs us that the Board of Supervisors has ordered the Converse Bridge Co., Chattanooga, Tenn., to prepare plans and specifications for a steel span bridge across Tallahala creek.

SHREVEPORT, LA.—The contract for building piers of bridge across Red River at this place has been awarded to the MISSOURI VALLEY BRIDGE & IRON CO., of Leavenworth, Kan. The bridge will be 1,250 ft. long, with six spans. Cost $250,000.

NEW ORLEANS, LA.—W. J. Hardee, Cy. Engr., writes us that a contract has just been awarded for the erection of a steel viaduct over terminal of Southern Pacific R. R. Co. Cost, $54,000. The eastern approach will be 676 ft. in length, the central section 687 ft., with an overhead clearance of 23 ft., and the western approach will be 943 ft. The roadway will be 28 ft. wide with a carrying capacity for a single electric street car track, and on each side of roadway there will be a foot walk 6 ft. wide. Work will be started soon.

FRANKFORT, KY.—The Frankfort & Versailles Traction Co. will, it is stated, construct a bridge across the Kentucky River, near here. James M. Pickrell, Winchester, Ky., is Gen. Mgr.

BARBOURVILLE, KY.—The concrete bridge of the Bell-Jellico Coal Co., crossing Cumberland River, was destroyed by flood, entailing a loss of several thousand dollars.

CINCINNATI, O.—We are informed that the Cincinnati, New Orleans & Texas Pacific R. R. Co., Geo. B. Nicholson, Ch. Engr., City, intend constructing two double track steel bridges, between Cincinnati and Erlanger, Ky., costing $200,000 and $125,000, respectively.

DAYTON, O.—F. M. Turner, Cy. Engr., writes us that the city will soon advertise the sale of $120,000 in bonds for new bridge at Washington St., this city. It will be several months before proposals will be advertised for.

PORTSMOUTH, O.—Bids will soon be received by Portsmouth Street Ry. & Light Co., for constructing a bridge over its tracks on Tenth St., to cost from $10,000 to $12,000. R. D. York is Gen. Mgr., City.

IRONTON, O.—We are informed that the Cincinnati, Hamilton & Dayton R. R. Co. is planning to extend its line from Ironton, building a bridge across the Ohio River, either at Ironton or Huntington, W. Va. C. A. Wilson is Ch. Engr., Cincinnati.

LEBANON, O.—Bids are asked by County Commissioners until March 13 for constructing substructure and superstructure of Cadwallader bridge, over Turtle Creek, near Lebanon, and Twin Creek bridge, near Carlisle. S. A. Stilwell, County Audr.

CELINA, O.—We are informed that the contracts for constructing superstructures of steel bridges on Krenning and Grimmie Roads were awarded to C. E. WALKER, of Bellefontaine, O., for $3,099, and to the INDIANA BRIDGE CO., of Muncie, Ind., for $3,025, respectively. T. A. Weis, County Audr.

CINCINNATI, O.—According to local press reports bids are being received for construction of two double-track steel bridges on the Cincinnati Southern road, between Cincinnati and Erlanger, Ky. One will cost about $200,000, and the other $125,000.

CRAWFORDSVILLE, IND.—The Northwestern Traction Co. is preparing to construct a viaduct over Vandalia Railroad at the city limits.

WABASH, IND.—W. S. Davis, Audr., Wabash County, writes us that bids will be received by County Commissioners until April 6 for construction of a concrete or steel bridge across Eel River near Stockdale.

MOUNT VERNON, IND.—Bids are asked by Silas G. Howard, County Audr., until Mar. 6, 2 p. m., for construction of six steel bridges.

INDIANAPOLIS, IND.—The County Council has adopted an ordinance providing for the following appropriations: Bridge over canal in Broad Ripple, $7,000; retaining wall to Fall creek bridge at Hammond's Park, $3,500; approach to Fall creek bridge in Lawrence Township, $102; buckle plates for West Washington St. bridge over White River, $4,500; joint bridge over Williams creek on Hamilton County line, $1,678; riprap for Buck Creek bridge on Michigan Road, $300.

BLUFFTON, IND.—Wells County Commissioners, it is reported, are planning to construct 16 new bridges this year, and that bids are now being received for the work.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., informs us that estimates for Ann St. bridge were submitted to the Council. Mr. Anderson also states that the prospects are that nothing will be done toward constructing bridge this year.

GRAND RAPIDS, MICH.—The City Council has decided to locate the proposed new Melan arch concrete bridge at Second Ave. and directed the city engineer to secure plans and specifications at once.

SAGINAW, MICH.—We are informed that the contract for constructing an iron bridge in Chapin, Saginaw County, as advertised in Engineering News, was awarded to JOHN J. GRANVILLE, of Saginaw, for $640. John W. Kerns, County Rd. Comr.

MANISTEE, MICH.—Bids are asked until March 30 for removing present drawbridge over Manistee River at Maple St. and building a new drawbridge, approaches, substructure and protection work. Plans and specifications on file at office of City Engineer. C. A. Gnewuch, Cy. Clk. (Advertised, Engineering News.)

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., writes us that the repairs to Leonard St. bridge, mentioned in preceding issue of Engineering News, will be made by day labor. Work will be started in the near future. Est. cost $1,800.

MILWAUKEE, WIS.—Gustav Steinhagen, Consult. Engr. for County Board, has prepared four plans for the proposed Grand Ave. bridge. One of the plans is for a complete stone structure, one for a steel construction, one for steel and concrete and the other for concrete. The estimated cost varies from $200,000, that for steel structure to $500,000 for stone.

A resolution has been introduced before County Board for a $400,000 bond issue for a new Grand Ave. bridge.

MILWAUKEE, WIS.—Chas. J. Poetsch, Cy. Engr., writes us that the Common Council has passed a resolution to have plans prepared for bids for Sixth St. viaduct, including two bascule bridges. Mr. Poetsch further states that at the present time there are only ... in the fund, which is insufficient to do the work, which is estimated at over $500,000. Therefore nothing will be done except condemning right of way for side approach until more money is available.

MILWAUKEE, WIS.—The city will vote April ... on the question of issuing $125,000 of bonds for a new bridge at Kinnickinnic Ave. Chas. J. Poetsch, Chn. Bd. Pub. Wks.

DES MOINES, IA.—Bids are asked by Board Public Works until March 8 for constructing a 6-ft. concrete-steel culvert on University Ave. W. W. Wise, ...

DES MOINES, IA.—John W. Budd, Cy. Engr., writes us that on March 18 bids will be opened by Board Public Works for construction of two reinforced concrete arches of 70-ft. spans at north end of Sixth Ave. bridge, also for two reinforced concrete retaining walls. Est. cost, $25,000. The roadway is 30 ft. and sidewalks 6 ft. on each side.

MINNEAPOLIS. MINN.—Bids are asked by County Commissioners until March 6 for rebuilding Bridge No. 16 at Orono. Hugh R. Scott, County Audr.

FREMONT, NEB.—The County Board, Feb. 15, awarded the contract for construction of new bridges for the year to the STANDARD BRIDGE CO., of Omaha.

PLATTSMOUTH, NEB.—WM. NEVILLE has received a contract from Union Pacific R. R. Co. to construct bridges on new line to be built between Marysville and ... miles and the bridge contract calls for the expenditure Topeka, Kan. The distance of the proposed line is 80 of about $50,000. He expects to begin work early in the spring.

CENTRAL CITY, NEB.—Bids are asked by C. F. Newmyer, County Clk., until March 21 for construction of all pile bridges in this county for one year.

BENTONVILLE, ARK.—Bids are asked by Marion Douglas, County Clk., until March 25 for building two steel bridges, one over Sargon creek and the other over Osage River, in Benton County.

KANSAS CITY, MO.—We are informed that plans are being prepared by Metropolitan Street Ry. Co. for a viaduct at James St., this city.

NORTH YAKIMA, WASH.—All bids received by County Commissioners for construction of proposed Natches bridge near Painted Rocks were rejected as being unsatisfactory. Bids will be readvertised for.

ABERDEEN, WASH.—Bids were opened Feb. 10 by A. J. West for piling to be used in construction of bridge across Chehalis River, and all were rejected as being too high.

COLORADO SPRINGS, COLO.—Citizens of East Uintah St. have presented a petition asking for the construction of a bridge. Referred to Street Committee. E. W. Case is Cy. Engr.

SAN DIEGO, CAL.—(See Streets and Roads.)

SAN FRANCISCO, CAL.—The Board of Works was requested by Board of Supervisors to furnish plans and specifications and an estimate of the cost of constructing a bridge to replace one now at Mt. Vernon and San Jose Aves., over Southern Pacific railroad tracks. Thos. P. Woodward is Cy. Engr.

PARKER, CAL.—The Atchison, Topeka & Santa Fe, it is reported, will build a new bridge over Colorado River at this place. A. F. Robinson is Bridge Engr., Topeka, Kan.

SANTA CRUZ, CAL.—Bids for construction of steel bridge across Soquel creek were rejected by Board of Supervisors as the amount of lowest bid exceeded appropriation. Granite Rock Co. was the lowest bidder, at $7,825.

SAN DIEGO, CAL.—G. A. D'Hemecourt, Cy. Engr., will prepare plans and specifications for two new bridges, one on Sorrento Road and the other at the Tecalote creek.

EDMONTON, N. W. T.—The Calgary & Edmonton Ry. Co. has received authority from Dominion Government to build a bridge over North Saskatchewan River between Strathcona and Edmonton. Cost. $600,000.

BATTLEFORD, N. W. T.—The Dominion Government is calling for tenders for a new steel bridge, with a pier and abutment, at Battleford.

PINKERTON, ONT.—Greenock Township Council will shortly call for tenders for rebuilding Watson's bridge, steel structure on cement abutments; also Riversdale bridge, and another bridge 300 ft. long on 18th concession. J. J. Donnerly, of Pinkerton, is Twp. Clk.

FREDERICKTON, N. B.—Bids are being received for building a bridge over Eel River. Address C. H. Laboise, Comr. Pub. Wks.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MARBLEHEAD, MASS.—Bids are asked until April 6 for construction (including plumbing, heating apparatus, electric wiring and conduits) of post-office building. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

SPRINGFIELD, MASS.—D. W. MELLEN, of Springfield, was awarded contract for new Technical High School building, at $175,000. Gardner & Gardner are Archs.

BOSTON, MASS.—NORCROSS BROS.' CO., Tremont Bldg., has been awarded the contract for the bank building, to be erected at 131 Devonshire St., for the New England Trust Co., 85 Devonshire St. Cost, about $120,000. McKim, Mead & White, 160 Fifth Ave., New York, are Archs. A. R. Wolff, 130 Fulton St., is Engr.

STAMFORD, CONN.—N. C. Mellen, 27 West 30th St., New York, is Architect for proposed municipal building. Bids will be received in about ten days. Cost, $140,000.

BINGHAMTON, N. Y.—Contract for constructing the new state armory in this city was let to MATHIAS STIPP, Scranton, Pa., at $87,736.

CENTRAL ISLIP, N. Y.—Bids are asked by the state commission in lunacy, Albany, until 3 p. m., March 8, for construction, heating, plumbing, electric light wiring of a building at Manhattan State Hospital, Central Islip. Drawings and specifications may be consulted and blank

forms of proposal obtained on application to G. L. Heins, State Arch., Albany, or S. A. Wheeler, purchasing steward, 280 Broadway, New York. T. E. McGarr, Secy., State Comn.

NIAGARA FALLS, N. Y.—James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., will prepare plans for a post-office building. Cost, $110,000.

ITHACA, N. Y.—Bids are asked until April 3, for construction of New York State College of Agriculture, at Cornell University, Ithaca. E. L. Williams, Treas. Cornell University; G. L. Heins, State Arch., Albany, N. Y. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids were received on Feb. 24 for metallic and wood furnishings, electric work, etc., required in the basement of the Hall of Records Building, Chambers, Centre, Reade Sts., Boro. of Manhattan. John Sheehan & Co., 160 Fifth Ave., were lowest bidders, at $87,700. General Fireproofing Co., Johnstown, Pa., submitted bid of $95,993.

Neville & Bagge, 215 West 125th St., have prepared plans for a 10-story theater and office building, with stores, to be erected at Westchester and Bergen Aves., Boro. of Bronx. Wm. F. Keogh Amusement Co., 1714 Lexington Ave., is owner. Bids will be received soon. Cost, about $350,000.

NEW YORK, N. Y.—The Automobile Club of America has purchased site at 247 to 259 West 54th St., for a new clubhouse. Ernest Flagg, 35 Wall St., will prepare plans for the building. It will cost, including site, about $500,000. Albert R. Shattuck, Colgate Hoyt and Dr. S. S. Wheeler, 39 Cortlandt St., are the building committee.

L. A. Goldstone, Arch., 110 West 34th St., has plans for a 9-story building to be erected at 13-15 West 20th St. for Green & Richman, 37 Maiden Lane. Cost, about $125,000.

Bids are asked until March 21 by John W. Brannan, Pres. Board Trustees Bellevue and Allied Hospitals, for furnishing material required for excavating, mason, carpenter, steel, plumbing, electric, ventilating, heating and other work for ambulance station and power house for new Harlem Hospital on Lenox Ave., 136th and 137th Sts.

Contract for the general construction of public school 87, Boro. of Queens, was awarded to JOSEPH OHLHAUSEN, at $95,790.

Bids were received on Feb. 21 for work at 13th district municipal court building. Hahn & O'Reilly, 3311 3d Ave., were lowest bidders, at $34,619, for masonry, ironwork, renovating, carpentry and glazing, tinning, plastering, etc. For installing low-pressure steam-heating apparatus, lowest bid was submitted by the William Horne Co., 245 West 26th St., at $3,397. M. J. O'Brien, 835 Sixth Ave. was lowest bidder, at $3,325, for plumbing.

The Board of Estimate has authorized the issue of corporate stock to the amount of $3,000,000, the proceeds to be applied to school extensions. The money will be spent for sites, for new schools and for addition to existing buildings. C. B. J. Snyder, Supt. Bldgs., Bd. Education.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 13, by C. B. J. Snyder, Supt. School Bldgs., Bd. Education, for the completion and finishing of the unfinished work for installing heating and ventilating apparatus at new Public School 31, at Monroe and Gouverneur Sts., Boro. Manhattan, in accordance with the original plans and specifications of contract awarded to Williams & Gerstle, which has been declared abandoned.

NEW YORK, N. Y.—Bids are asked until March 6, 11 a. m., for general construction of one school, sanitary work and gas-fitting, heating and ventilating work, etc., in three schools in Boro. Manhattan for Board of Education. C. B. J. Snyder is Supt. School Bldgs.

NEW YORK, N. Y.—Trowbridge & Livingston, Archs., 424 Fifth Ave., have been commissioned to prepare plans for new building to be erected for the Chemical National Bank, 270 Broadway, with an "L" to Chambers St.

BROOKLYN, N. Y.—Board of Estimate will be asked for an appropriation for a new Health Department Building. Sites are now being considered by Dr. T. L. Fogarty, Asst. Sanitary Supt., Alfred T. Metcalf, Ch. Clk., and Health Commissioner Thomas Darlington. Building will cost about $100,000.

OSWEGO, N. Y.—An appropriation of $75,000 will be asked for new armory. P. W. Cullinan is interested.

SYRACUSE, N. Y.—Bill has been introduced in State Senate providing for $175,000 appropriation for a new armory.

NEWARK, N. J.—Committee on school houses has recommended to Board of Education that $665,000 be appropriated for new buildings.

JERSEY CITY, N. J.—Bill is before legislature which provides $186,000 appropriation for new almshouse at Snake Hill.

TRENTON, N. J.—Board of Prison Inspectors recommended that legislature appropriate $250,000 for new cell wings at penitentiary.

PATERSON, N. J.—Board of School Estimate recommends that $275,000 of bonds be issued for a new high school.

NEWARK, N. J.—The Board of School Estimate has recommended to the Common Council the issuance of $370,000 of bonds for purchase of sites for and the erection of new schools.

PHILADELPHIA, PA.—HENDERSON & CO., 1221 Arch. St., have been awarded contract for a House of Detention at 2139-2141 Arch St., for city. Cost, about $80,000.

Watson & Huckel, Archs., 1211 Walnut St., will receive bids until March 6 for a branch library building at Frankford Ave. and Ovenington St. Cost, $50,000.

The Wayne Construction Co. will erect 136 dwellings at Fifth St. and Rising Sun lane. Cost, about $300,000.

J. E. & A. L. PENNOCK, Land Title Bldg., have the contract for an addition to bank building, at Orianna and Chestnut Sts., for the Fidelity Trust Co. Two stories, stone and steel fireproof. Cost, $102,492.

Bids are reported to have been received by Carl P. Berger, Arch., 1418 South Pennsylvania Sq., for the erection of German Theater on Girard Ave. and Franklin St. It is to be five stories high, of brick and stone. Probable cost, $150,000.

WILKESBARRE, PA.—The County Commissioners at the instance of F. J. Osterling, Arch., of Pittsburg, have cancelled the contract of Wilson J. Smith, of this city, for building the new $1,000,000 court house here. Contractor Smith's bondsmen, the American Bonding Co., of Baltimore, has been ordered to take possession of the building operations and complete the contract under the specifications.

PHILADELPHIA, PA.—Bids will be received for building the Southern Manual Training School at Broad and Jackson Sts., about March 7. Appropriation, $330,000.

ELKINS PARK, PA.—Bids are asked by Brockie & Hastings, Archs., 328 Chestnut St., Philadelphia, until noon, March 4, for the complete construction of the new Cheltenham high school building, at Elkins Park.

NORRISTOWN, PA.—We are informed that John Maddock, Contractor and Builder, Philadelphia, Pa., proposes to purchase a large farm within borough limits, with intention of erecting 400 dwellings thereon. He intends, also, we are informed, to present city with 28 acres of land along Stoney Creek for a park, and if Councils will macadamize the streets he will open and grade. The work, which will include construction of storm and sanitary sewers, gas and water mains, electric lights, etc., will be constructed under supervision of S. Cameron Corson, Boro. Engr.

WASHINGTON, D. C.—House of Representatives committee is reported to have favorably considered an omnibus lighthouse bill. The bill authorizes a new lighthouse, to cost $125,000, at Ambrose Channel, N. Y.; one at Brunswick, Ga., to cost $90,000; at Milwaukee, Wis., $100,000; Rock of Ages, Lake Superior, $125,000; Honolulu, Hawaiian Islands, $40,000. Two lighthouse tenders, each to cost $130,000, were authorized, one for the New York district and one for the California district.

WESTCHESTER, PA.—Thomas Reilly, of Philadelphia, was lowest bidder, at $35,458, for construction of post-office here. Bids were received on Feb. 21.

BALTIMORE, MD.—Bids are asked by Harry F. Hooper, Cy. Register, until 11 a. m., March 1 (re-advertisement, former bids having been rejected), for the erection of the Eastern high-school building, at Broadway and North Ave. Noted on Feb. 23.

BRADDOCK HEIGHTS, MD.—Morris & Clifford, Builders' Exchange, Baltimore, will prepare plans for a $50,000 hotel.

LYNCHBURG, VA.—It is reported that $100,000 will be spent in improvements at the Randolph-Macon Woman's College. Dr. W. W. Smith is Pres.

The contract for the erection of the Krise office building has been let to C. W. HANCOCK & SON, of this city. The building will cost, together with the site, $150,000. It will be a modern 7-story fireproof structure.

MACON, GA.—State Normal School building committee will receive plans on March 10, 10 a. m., for the following buildings: One building for class-room and laboratory uses, cost $25,000; one kitchen and dining-room building, capacity 400 students; with second story for dormitory purpose accommodating 60 students; cost, $15,000; one central steam-heating plant for seven college buildings, cost $10,000. Three of the buildings already contain individual heating plants. For detailed information address R. E. Davison, Chn., Woodville, Ga.

JACKSONVILLE, FLA.—The Shrine Building Association, George L. Bahl, Pres., is arranging for the erection of an 8 or 10-story building. Cost, $100,000. T. G. Hutchinson is Secy.

MOBILE, ALA.—The Battle House hotel was burned recently. Loss, $250,000; insurance, about $150,000. William Vizard, of New Orleans, is owner.

BIRMINGHAM, ALA.—W. H. Woodward and associates have purchased a site upon which, it is reported, he will erect a modern hotel at a cost of between $600,000 and $750,000.

J. W. Tomlinson will rebuild business block on First Ave.

NEW ORLEANS, LA.—W. J. Hardee, Cy. Engr., writes us that a new court house will be built jointly by State and City on square bounded by St. Louis, Conti, Chartres and Royal Sts. It will cost about $800,000. It will be constructed under supervision of city engineer and a commission. Bids are asked until June 15 for competitive plans. A premium of $7,000 will be paid for the best plan, $2,000 for second and $1,000 for third choice.

As soon as city engineer can prepare plans and specifications for them, the city will build three new markets at cost of $30,000, two brick engine houses at approximate cost of $15,000, one brick school building, $40,000; one frame school, $25,000.

The city engineer prepares plans and specifications and supervises the construction of all public buildings and also supervises construction of all private buildings, examining such plans and specifications. During past year 1,798 permits, aggregating in cost $2,964,154, were issued.

BATON ROUGE, LA.—Bids are asked by W. H. Bynum Mayor, until 12 noon, March 23, for the erection of a modern school building. L. M. Weathers Co., Memphis, Tenn, are Archs.

Many blocks of wharves and freight sheds, two grain elevators, etc., were burned on Feb. 26. Loss is estimated at $5,000,000.

NEW ALBANY, MISS.—Bids are asked by Board of Supervisors of Union county, until March 9 for the erection of jail (complete). C. S. Cullens, Chancery Clk., New Albany.

VICKSBURG, MISS.—The First National Bank will erect an 8-story bank building at a cost of $120,000. Proposals for construction will be advertised for at once, it is reported.

MERIDIAN, MISS.—The Meridian Terminal Co. will let contract about March 20 for the erection of union depot. Frank P. Milburn, Columbia, S. C., is Arch. Building is to be 45 × 200 ft., and cost about $200,000. C. C. Harvey, New Orleans, La., is Pres.

NASHVILLE, TENN.—The Hermitage and University Clubs have consolidated and will erect a $100,000 club building.

LOUISVILLE, KY.—Fountaine Ferry Park Co., reported last week as having plans prepared by D. X. Murphy & Bro. for theater, pavilion, etc., at Fountaine Ferry Park, has let contract to JOSEPH LIBLER & CO., for the erection of the buildings. Cost, about $125,000.

LEXINGTON, KY.—The Lexington & Eastern Railway Co., J. R. Barr, Lexington, Gen. Mgr.; the Louisville & Nashville Railway, W. H. Smith, Louisville, Pres., and the Chesapeake & Ohio Railway, G. W. Stevens, Richmond, Va., Pres., have purchased site on East Main St., on which to erect proposed union depot to cost from $150,000 to $200,000.

CLEVELAND, O.—Contract was awarded by Watterson & Schneider, Archs., to SAMUEL AUSTIN & SON CO. for new physic building, Case School of Applied Science. Cost $80,000. Mason and cut-stone work was sublet to GRIFFING & CO., and iron and steel work to NATIONAL IRON & WIRE CO.

CINCINNATI, O.—Large freight houses of concrete construction, with wooden roof trusses, and a fireproof building for offices and storage of records, are to be built by the Cincinnati Southern Ry. Bids will be invited soon. George B. Nicholson, Cincinnati, O., is Ch. Engr.

INDIANAPOLIS, IND.—General contract for erecting warehouse for Van Camp Hardware & Iron Co. has been let to LYNN B. MILLIKAN, of Indianapolis. It will cost $300,000. H. C. Brubaker is Arch.

The Chicago & Eastern Illinois Ry. Co. will erect freight houses and a new passenger station to cost $1,000,000, it is reported. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.

INDIANAPOLIS, IND.—It is reported that $350,000 will be spent this year on new barracks and officers' quarters at Fort Benjamin Harrison.

J. Frank Hanly, Governor, is stated to be in favor of granting appropriation for an epileptic hospital to cost $150,000. Another bill has been introduced in Senate by Case Wood, Senator from Jackson and Washington counties, appropriating $500,000 for a state insane asylum at Seymour.

FT. WAYNE, IND.—Frank F. Allen, 844 West Creighton Ave., has been commissioned to prepare plans for the new Hanna school building for the school board. J. M. Bash, Pres. Cost, $60,000.

ALPENA, MICH.—Bids are asked by the building committee until noon, March 27, for the construction of a city-hall building. Clark & Munger, Archs., Shearer Bros. Bldg., Bay City, Mich. Mayor Frank C. Holmes is Chn. Bldg. Com.

GRAND RAPIDS, MICH.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until March 22, 3 p. m., for installing plumbing system in post-office and custom-house building.

The Castner-Knott Dry Goods Co. will erect a department store at Church St. and Seventh Ave., North. Cost, $200,000. C. B. Castner is Secy. and vice-Pres.

Board of Education has adopted plans for new school extensions. A $75,000 annex will be built to Central High School.

CHICAGO, ILL.—Bids are asked until 1 p. m., March 6 for entire work of altering south end court-house; separate bids will be received also on cut-stone and masonry and elevator work. William McLaren, Supt. Public Service.

CHICAGO, ILL.—It is reported that Bush Temple Christian Church, Rev. Dr. George E. Hall, pastor, will erect a $1,000,000 home on North Side.

THOMPSON-STARRETT CO. is said to have been awarded contract for new Illinois Athletic Club building. It will cost about $550,000. It will be erected on Michigan Ave. Barnett, Haynes & Barnett, of St. Louis, Mo., are Archs. Previously noted.

The Illinois Life Insurance Co. will erect an 18-tory office building at Madison and La Salle Sts.

EAST ST. LOUIS, ILL.—Mauran, Russell & Garden, St. Louis, Mo., have been commissioned to draw plans for a 6-story bank and office building for the First National Bank of East St. Louis, at Collinsville and Missouri Aves. Cost, $100,000. B. P. Goodwin is cashier.

CEDAR RAPIDS, IA.—Bids are asked until 1.30 p. m., March 15 for interior work, plumbing, elevators, electric motors, heating, etc., for Cedar Rapids Hotel. Josselyn & Taylor Co., Arch.

ST. LOUIS, MO.—Plans prepared by J. L. Wees, 520 Olive St., have been accepted for the Evangelical Deaconess' Hospital which is to be erected on Bell Ave. and Sarah St. Cost, about $100,000. Rev. J. F. Klick, G. H. Watterau, Rev. Kelmme and Rev. F. P. Jens are committee in charge.

ST. LOUIS, MO.—Stix, Baer & Fuller Dry Goods Co. has purchased the Lindell Hotel site and is having plans prepared by Mauran, Russell & Garden, Chemical Bldg., Archs., for an 8-story fireproof building. Cost, $1,500,000. It is stated that 15 elevators will be installed, together with filter plant, sprinkler system, pneumatic tubes and all modern appliances. THE WESTLAKE CONSTRUCTION CO. has been awarded the general contracts, it is reported.

Of the bids for construction of Shields' School received the following were approved and contracts awarded: Shields School—general work, HIRAM LLOYD BUILDING & CONSTRUCTION CO., $161,357; plumbing, FINK & SCHUSTER PLUMBING CO., $9,230; heat and ventilating, B. F. STURTEVANT CO., $20,678. Addition of three rooms to the Dessalines school—general work, KELLERMAN CONSTRUCTION CO., $37,800; plumbing, FINK & SCHUSTER PLUMBING CO., $4,890; heating and ventilating, NATIONAL HEATING CO., $8,899. GILLICK BROS. have contract for new Shepard school on Wisconsin Ave.

FORT CLARK, TEX.—Construction work under consideration at this post is said to be as follows, with Government estimate of cost: One set colonels' quarters, $14,500; three sets field officers' quarters, $31,500; ten sets capitains' quarters, $90,000; four sets lieutenants' quarters (for married officers), $32,000; ten sets lieutenants' quarters (for single officers), $35,000; eight non-commissioned officers' quarters, $26,500; one hospital steward's quarters, $3,550; one band barracks, $13,500; eight cavalry stables, $100,000; one field staff and band stable, $8,500; one administration building, $17,500; one guardhouse, $18,500; one subsistence storehouse, $12,500; one quartermaster's storehouse, $18,000; one quartermaster's stable, $12,500; one wagon shed, $3,750; one magazine, $2,750; eight company barracks, $200,000. (Post-office, Brackettville, Tex.)

SPOKANE, WASH.—D. M. McInnis was the lowest bidder, at $24,459, for one double set of lieutenants' quarters and one wagon shed at Fort Wight. Edw. A. Shuttleworth, Q. M.

SEATTLE, WASH.—Saunders & Lawton, Archs., New York Bldg., have been authorized to prepare plans for J. A. Moore's new theater building. Cost, $350,000. It is to be built of steel and brick.

LOS ANGELES, CAL.—John C. Austin, Arch., is preparing plans for a 7-story hotel at Court and Hill Sts., for L. E. Porter and J. J. Seemans. It will be of brick and steel construction and contain 125 rooms.

LOS ANGELES, CAL.—A. F. Rosenheim, Arch., Hellman Bldg., informs us that contracts will be awarded about April, for lodge building for B. P. O. Elks. It will be six stories high, 60 × 170 ft. Cost, $125,000.

SAN FRANCISCO, CAL.—Bids are asked until March 6 for purchase of $2,573,800 of municipal bonds; $250,000 of this amount is for hospital, $1,077,600 for schools and $243,000 for county jail and Hall of Justice.

Contracts, aggregating about $100,000, including structural steel and brick work, are to be closed shortly for the new German Hospital in San Francisco. Herman Barth, 508 Montgomery St. is the Arch.

OGDEN, UTAH.—TOM LOVELL, Denton, Tex., has contract for construction of post-office here, at $158,725.

GALT, ONT.—Bids are asked until 6 p. m., March 4 for construction of Collegiate Institute Building. Stewart & Witton, Hamilton, are Archs. Thomas Carscadden is Secy.

WINNIPEG, MAN.—St. John's College will erect a new building at a cost of $100,000. Bids will be asked soon for its construction.

MONTREAL, QUE.—Grosvenor Apartments, Ltd., will erect an apartment house at Guy and Sherbrooke Sts. Cost, $200,000. Contracts will be let at once. Hugh A. Allan and H. M. Marler are interested.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids were received Feb. 23 by Capt. A. W. Yates, Q. M., U. S. A., for extension of water mains at Fort Preble, the three lowest bidders being as follows: W. B. Bryne, West Medford, Mass., $2,050; Richard D. Shanahan, Portland, Me., $2,100; F. H. Marshall, Portland, Me., $2,145.

BOSTON, MASS.—Following bids were received Feb. 21 by Water Department, W. E. Swan, Ch. Clk. and Secy., for furnishing 1,985 tons straight pipe and 15 tons of specials: Warren Foundry & Machine Co., New York, $50,892; U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, Pa., $50,949; Camden Iron Works, Philadelphia, Pa., $54,710.

WICKFORD, R. I.—Wickford Light & Power Co., Thos. J. Pierce, Secy., contemplates construction of water-works.

WESTPORT, CONN.—Westport Water & Electric Light Co. is reported to be seeking amendment to its charter, so as to allow of increasing capital stock by $50,000, and issuance of $125,000 bonds, proceeds to be used, it is said, for improvements.

SOUTH NORWALK, CONN.—Water Commissioners are reported to have rejected all bids received Feb. 15 for constructing filtration plant at Wilton, and will call for revised bids eliminating construction of secondary filter. At former opening of bids prices ranged from $62,300 to $86,288. An appropriation of $50,000 was voted some time ago for the work. Christian Swartz is Water Comr.

EAST HAMPTON, CONN.—Ransom & Hoadley, Providence, R. I., who recently bought rights of Salmon River Power Co., plan, it is stated, to build a reservoir in Marlboro. Of the $300,000 to be expended, at least $100,000 will be for this work.

SYRACUSE, N. Y.—Following bids were received Feb. 14 by Board Contract and Supply, T. T. Pierson, Clk., for furnishing 365 tons cast-iron water pipe and nine tons of specials: Camden Iron Works, Philadelphia, Pa., $10,359; C. T. Hookeray, $10,507; Chas. Miller & Son Co., $10,068.

GLENS FALLS, N. Y.—We are informed that village contemplates installing power pump of capacity of about 2,000,000 gallons; also the putting in of some meters. Geo. P. Slade is Village Engr.

SCHOHARIE, N. Y.—Contract for constructing water-works for this place is stated to have been let to JEHIEL VAUGHN, Stamford, N. Y., for $23,932. Bids were opened Feb. 22. H. F. Kingsley is Village Clk.

BINGHAMTON, N. Y.—Water Commissioners have awarded contract for auxiliary pump for use at filtering station to NORWOOD ENGINEERING CO., Lawrence, Mass., for $2,565.

SPENCERPORT, N. Y.—Rochester & Lake Ontario Water Co., Rochester, N. Y., are stated to have made proposition to Village Trustees for system of water-works. It would be necessary to lay six miles of mains to connect with company's system.

SYRACUSE, N. Y.—Bids are asked by Board Contract and Supply, Frederick T. Pierson, Clk., until Feb. 6 for furnishing 750 No. 5 curb boxes, 125 gate stones, 50 gate box tops with covers, 50 covers and chains for gate boxes, 200 iron saucers for gate boxes and 100 gate box extensions; bids are also wanted for 30,000 lbs. soft pig lead.

MADISON, N. J.—Dunn Water Supply Co. has been organized with $100,000 capital stock and office at 108 Madison Ave., Madison. C. E. W. Smith and G. M. Ward are interested.

HARRISBURG, PA.—Charters have been granted to ten water companies, each capitalized at $5,000, to do business in Allegheny County. The directors of these concerns are John Daly, W. J. Morgan, J. P. Torrence, W. H. Murdock and R. D. Cres, Pittsburg, Pa.

PHILADELPHIA, PA.—Contract for water pipes to be laid during current year from street mains to new dwellings, for which $100,000 is available, has been let to CAMDEN IRON WORKS and DONALDSON & CO.

CONNELLSVILLE, PA.—The Rivers Water Co. has been incorporated with $20,000 capital. Thos. J. Mitchell and Frank R. Bradford, Connellsville, are Directors.

SYKESVILLE, PA.—Sykesville Water Co. has been incorporated with $5,000 capital. S. B. Long and Jacob Sykes are interested.

NEW CASTLE, DEL.—Delaware Water Improvement Co., James M. Seabury, Pres., Philadelphia, Pa., has filed bond with City Council for the erection of water-works, work on which is to start as soon as weather will permit.

WASHINGTON, D. C.—Bids are asked by District Commissioners until March 18 for furnishing 600 tons 8-in. cast-iron water pipe. (Advertised, Engineering News.)

LENOIR, N. C.—Water-works on rental basis is said to be desired by this town. J. E. Mattocks, Secy. Board of Trade, may be addressed.

COLUMBUS, GA.—Blue Spring Water, Land & Construction Co. has made proposition to city to establish water-works at cost of $500,000.

BRAIDENTOWN, FLA.—According to reports this city wants information as to cost, etc., of installing water-works and possibly sewerage in small towns. J. H. Humphries should be addressed.

MONTGOMERY, ALA.—Bids are asked until March 6 for furnishing soft pig lead and untarred packing. R. S. Williams, Cy. Treas.

NEW IBERIA, LA.—Contract for extending city water-works is stated to have been let to GEORGE SIMON.

BOYCE, LA.—Bids are asked by Mayor and Board of Aldermen until March 20 for construction of water-works system. Ira W. Sylvester, Engr., Alexandria, La.; J. H. Dawson, Mayor.

MANSFIELD, LA.—Bids are asked by Mayor and Board of Aldermen until May 14 for construction of water-works, estimated cost of which is set at about $15,000. Ira W. Sylvester, Alexandria, La., is Engr., and J. L. Williams is Mayor. Plans and specifications for above work are on file at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

BUCYRUS, O.—Bucyrus Water Co. is stated to be making arrangements to put in a filtering plant of a capacity of 1,000,000 gallons daily in compliance with an order from the state health department.

CLEVELAND, O.—Specifications and bidding sheet for furnishing stop cock boxes for city water department are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until March 13, as advertised in Engineering News.

BELLEVILLE, O.—Belleville Electric Light Co., L. M. Gardner, Mgr., is said to contemplate construction of water-works.

DELTA, O.—We are informed that plans are in preparation for proposed new municipal water-works, supply to be from wells. Matter will have to be voted on by citizens. Riggs & Sherman, Toledo, O., are Des. Engrs. Geo. T. Everett is Mayor.

CHICAGO, ILL.—Bids are asked by Department Public Works, F. W. Blocki, Comr., until March 4 for furnishing and delivering at water-works shops all hydrants and stop-cock valves required during year ending Dec. 31, 1905.

FREEPORT, ILL.—We are informed that Freeport Water Co., O. T. Smith, Supt., contemplates making no improvements except extensions of mains.

CHICAGO, ILL.—Bids are asked by Department Public Works until March 10 for furnishing and delivering during term ending Dec. 31, 1905, approximately 700-in., 7,000 ¾-in., and 2,500 ⅝-in. corporation ferrules. F. W. Blocki, Comr. Pub. Wks.

MILWAUKEE, WIS.—Bids are asked by Board Public Works, Chas. J. Poetsch, Chn., until March 7 for furnishing material and constructing foundation of engine No. 5 at North Point pumping station.

SHEBOYGAN, WIS.—The Mayor writes us that city has purchased local water-works and will take possession Jan. 1, 1908.

DE PERE, WIS.—Bids are asked by M. J. Maes, Cy. Clk., until March 4 for purchase of $44,000 of water-works improvement bonds.

DULUTH, MINN.—We are informed that at an election Feb. 9, a bond issue of $140,000 was authorized, the money to be used for extensions and improvements of municipal water-works. L. W. Case, Mgr., is official in charge.

MINNEAPOLIS, MINN.—Bids are asked by City Clerk until March 10 for 828 tons, 6-in. to 16-in. cast-iron pipe, 95 hydrants, 48 valves and 22 tons special castings; specifications at office of Andrew Rinker, Cy. Engr.

We are also informed that City Council has authorized Water Department to assume payment of interest on $1,000,000 of bonds, for purpose of construction of filtration plant.

ORONGO, MO.—We are informed that city was to vote Feb. 28 on matter of new city water-works, to cost $10,000. Proposition is to drill deep well and to lay 2,600 ft. 6-in. main and set 12 fire plugs; 50,000 steel tank on 65-ft. high tower, a lift pump and gasoline belt-connected engine are also contemplated. Designing engineer had not been secured.

FORT ASSINNIBOINE, MONT.—Bids are asked by Capt. J. B. McDonald, Construct. Q. M., U. S. A., until March 25 for furnishing and installing in place, in complete working order, with all piping, fittings, valves, stops, etc., required, one 40-HP. boiler, one stack with breeching and roof ventilator, one duplex pump, one boiler feed pump, one feed water heater with exhaust head, also 3,050 ft., more or less, 6-in. and 650 ft., more or less, of 4-in. cast-iron hub and spigot water pipe. (Advertised, Engineering News.)

STROUD, OKLA. T.—The Mayor writes us that an election will be held March 7 to vote on a $28,000 bond issue for installing water-works.

ROGERS, ARK.—Rogers Water Co. has filed articles of incorporation. Capital stock is $150,000, and F. F. Freeman and W. R. Felker are incorporators.

DENVER, COLO.—Fort Lupton Ditch & Reservoir Co. has been incorporated with $16,000 capital to build ditch and reservoir near Fort Lupton. D. B. Snouffler and Arthur Ponsford are interested.

GREELEY, COLO.—Cooke Irrigation Co. has been incorporated with $18,000 capital, to acquire, build and control Cooke irrigation ditch and reservoir. J. W. Ewing and James W. Morgan are interested.

PORT TOWNSEND, WASH.—Bids are asked by Geo. H. Penrose, Q. M., U. S. A., until March 13 for furnishing and laying about 6,675 ft. 6-in. cast-iron pipe at Fort Flagler, Wash.

SEATTLE, WASH.—Pacific Coast Pipe Co., at $28,225, was low bidder Feb. 18 for construction of water main in Phinney Ave.

BELLINGHAM, WASH.—We are informed that bids will be opened March 13 for furnishing and installing 75-HP. electrical pumping plant, consisting of generator, motor and turbine pump and 5,200 ft. of wire. Cost will be about $3,500. The city will furnish power to run generator. Geo. M. Gerhard, Cy. Engr., is official in charge; F. B. Graves, Cy. Comptroller.

SANTA ANA, CAL.—Bids are asked until March 6 for boiler and pump for city water-works. Ransom Reid is Supt. W.-W. and Ed. Tedford is Cy. Clk.

MONROVIA, CAL.—W. A. Walker, Pres. Bd. Trustees, writes us that an election will be held April 17 to vote on issuance of bonds to improve present water system, which will consist of removing 5,200 ft. of 10 and 12-in. riveted steel pipe and replacing it with 14-in.; purchase and installing one 100-HP. and one 50-HP. alternating current motors, an air compressor, a pump, and relaying several thousand ft. of from 2 to 6-in. pipe. M. R. Williams, Chn. W. Com., is official in charge.

SAN FRANCISCO, CAL.—William T. Garratt & Co., brass founders of this city, are to construct a dam in the San Juan Canyon near Salinas, where they have property interests. The water will be diverted for irrigation purposes.

SAN BERNARDINO, CAL.—As mentioned in our last week's issue the contract for completing the dam of the Little Bear Reservoir of the Arrow head Reservoir Co. has been let to BRIGHT & DREW, these contractors having their offices in the Henne Bldg., Los Angeles, Cal.

ORANGE, CAL.—We are informed that proposed extension of city water-works will require hydrants, meters, 4-in., 6-in. and 8-in. pipe, 60,000 to 80,000-gallon tank, and 60 to 80-ft. tower. No bids are to be taken. Price-lists and catalogues will be received. Committee in charge consists of Dr. D. F. Royer, G. D. Toothaker and J. C. Williams.

RIVERSIDE, CAL.—Rivino Water Co. has been incorporated with $75,000 capital. Chas. C. Hall, Berkeley, Cal., and W. W. Wilson, Riverside, are interested.

INDIO, CAL.—Indio Light, Water & Ice Co., according to reports, will install water system. W. F. Everett, Secy.

LEHI, UTAH.—Allied canal companies have awarded contract for furnishing pump of capacity of 100 cu. ft. per second to SALT LAKE HARDWARE CO. Contract for making excavations and placing pump was let to R. GARDNER.

WINNIPEG, MAN.—Bids are asked by Chairman Fire, Water and Light Committee until March 13 for supply of brass goods and pipe fittings. H. N. Ruttan, Cy. Engr.; C. J. Brown, Cy. Clk.

LONDON, ONT.—Bids are stated to be asked until March 6 for water-works supplies, including lead pipe, brass fittings, stop cock boxes, iron castings, hydrants, valves, lumber, cast-iron mains and laying same. Specifications at office Moore & Henry, Albion [illegible] London.

VANCOUVER, B. C.—Contract for furnishing [illegible]-iron pipe for city is stated to have been let to ROBERTSON & GODSON for $37,309.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—Legislative leave is to be sought for permission to borrow $100,000 for sewer construction. A. D. Marble is Cy. Engr.

SALEM, MASS.—Council has appropriated $[illegible] for trunk sewer. Sewerage Commission, J. Loring Bowen, Clk., has had plans prepared.

HEMPSTEAD, L. I., N. Y.—The Nassau County Sewerage Co. has been incorporated with a capital of $[illegible] to install sewerage in Hempstead and in other places in Nassau County. H. P. Keith, Robertson Honey[illegible] and Lawrence Kerwin are Directors.

NEW YORK, N. Y.—A bill has been introduced in the State Legislature providing for the extension of the sewer system of Brooklyn and Manhattan. The bill proposes that the city of New York spend in the reconstruction of sewers $2,000,000 a year until $10,000,000 has been expended.

SARATOGA SPRINGS, N. Y.—Bids are asked until March 7, 2 p. m., for constructing a sewer. H. F. Thomas, Clk.

NEW ROCHELLE, N. Y.—Bids were received Feb. 23 by Sewer Commissioners, James Knapp Wilkes, Ch. Engr. Sewers, for constructing submerged cast-iron connecting sewer and appurtenances, the contract being let to SEELEY-TAYLOR CO., 78 Broad St., New York, for $77,622. Work requires 2,000 lin. ft. 30-in. c.-i. pipe sewer, one sand catcher, one rising well, two manholes, 45 lin. ft. 24-in. vitrified pipe sewer, 260 lin. ft. 30-in. vitrified pipe sewer, 390 cu. yds. rock excavation, 72 lin. ft. 8-in. c.-i. pipe sewer, 400 cu. yds. riprap.

ASBURY PARK, N. J.—Plans for the septic sewage plant have been presented to the Council.

ALTOONA, PA.—We are informed that a considerable amount of pipe sewers will be constructed in the newly annexed addition to the Ninth Ward, the area of which is about 122 acres. Harvey Linton, Cy. Engr.

MACON, GA.—The city will advertise for bids for the construction of the sewer system in Vineville and on Huguenin Heights. J. W. Wilcox is Cy. Engr. Previously noted.

ATLANTA, GA.—Bids are asked by the Mayor and General Council until March 6 for the following work for the year 1905: Constructing lateral sewers; furnishing cement, vitrified pipe and castings for sewer work. Specifications are at office of R. M. Clayton, Cy. Engr.

GADSDEN, ALA.—We are informed that the matter of building new sewers and pavements for this city is under consideration. Data will soon be wanted regarding such improvements. Population, 10,000.

LEXINGTON, KY.—Thos. A. Combs, Mayor, writes us that bids for the proposed system will be asked in about 50 days. The plans, specifications, profiles, etc., are not yet completed.

SPRINGFIELD, O.—Special election may be held to vote on sewerage extension to cost about $300,000. John W. S. Riegle is Cy. Engr.

MASSILLON, O.—Bids are asked until March 6, noon for constructing several sanitary sewers. Henry Shriver, Pres. Bd. Public Sewer.

CLEVELAND, O.—Board Public Service awarded following contracts Feb. 17 for sewer work: BEERS & DOOLITTLE, Norwood St., $44,866; Ambleside Ave., $3,187. WILLIAM LEHMAN, Rhodes Ave., $9,866; Dean St., $4,636; Sargent St., $2,146; Schley Ave., $1,228; Auburndale Ave., $1,543; Prague St., $1,002. Contract for sewer in Milford St. was not let and work will be readvertised. Lowest bid was $28,453.

COLDWATER, MICH.—Following bids were received Feb. 21 (readvertisement) by Board Public Works for completing trunk sewer; Chas. G. Moore, Cy. Engr.: Stitt & Kunse, Wabash, Ind., $25,575; National Construction Co., South Bend, Ind., $27,484; W. W. Hatch & Sons, Goshen, Ind., $30,780; M. A. Talbott & Co., Logansport, Ind. $32,857; O'Shea & Shea, Hammond, Ind., $27,524.

CHICAGO, ILL.—Bids are asked by Board Local Improvements, Andrew M. Lynch, Pres., until 10.15 a. m., March 7, for constructing several vitrified tile pipe sewers and house drains.

GREEN BAY, WIS.—City will let 14 contracts this year for construction of vitrified pipe sewers. Some of the contracts have already been placed.

DES MOINES, IA.—Bids are asked by Board Public Works until March 11 for construction of 42-in. circular, two-ring brick sewer, and a 5-ft. circular, two-ring brick sewer. W. W. Wise, Pres. Bd. Pub. Wks.; John W. Budd, Cy. Engr.

DULUTH, MINN.—Plans are stated to have been completed by T. F. McGilvray, Cy. Engr., for two sewer systems, one on Duluth Heights, to cost $68,369; the other for the district lying east of Lester River, to cost $3,017.

ST. LOUIS, MO.—Following are the lowest bids received Feb. 14 by Board Local Improvements for sewer work: Robert Wycoff, Glaize Creek sewer district No. 2, $4,199; Geo. J. Pendergast Construction Co., Ohio Ave. sewer, $1,482, Rocky Branch. $4.020. Ninth District sewer, $6,773; Fred Hoffmann & Co., E. 13th St. sewer, $9,645; McIntyre-Teese Construction Co., Ferry St. sewer, $1,104, Manchester Road sewer, $31,709.

OKLAHOMA CITY, OKLA.—Bids are asked by T. A. Blaise, Cy. Clk., Oklahoma City, until March 2 for the construction of a six and eight-inch sanitary lateral sewer in the Military and Orchard Park additions to Oklahoma City.

GALVESTON, TEX.—Board of City Commissioners are stated to have plans under consideration for expenditure of about $30,000 for sewer construction. C. G. Wells is Cy. Engr.

HOUSTON, TEX.—We are informed that contract for metal concrete sewer has been let to C. U. PATTON.

COLORADO SPRINGS, COLO.—The City Council has been petitioned to construct a tile or concrete storm sewer for drainage on the West Side, to cost $6,000. E. R. Case is Cy. Engr.

SAN JOSE, CAL.—An election will be held on March 18 for purpose of forming a santary sewer district, to be known as College Park district. Henry A. Pfister, Clk.

LOS GATOS, CAL.—Town has voted to issue $4,000 of bonds for the construction and completion of a sewer, septic tank and sewerage system on the western side of town. K. H. Erickson, Town Clk.; J. G. McMillan, Engr., Hall of Records, San Jose, Cal.

SAN FRANCISCO, CAL.—Thomas P. Woodward, Cy. Engr., writes us that on Feb. 20 bonds to amount of $[illegible],200 were sold; $281,200 will be used for sewerage work, of which $242,000 is new construction. It will be expended in that portion of the Yerba Buena sewerage district east of Second St. and south of Market St., including a pumping station.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—Following bids were received Feb. [illegible] by Bureau Yards and Docks, Washington, D. C., for garbage incinerating furnace and stack at Navy Yard, New York: Morse-Boulger Destructor Co., 39 Cortlandt St., New York, $3,000; Abbott Gamble Co., 32 Broadway, New York, $3,480; Sanitary Engineering Co., 237 Broadway, New York, $3,400; Decarie Mfg. Co., 200 First Ave. South, Minneapolis, Minn, $3,500, $6,000; $10,000.

ATLANTIC CITY N. J.—Council has awarded contract for collection of garbage until Sept. 15 to ATLANTIC PRODUCT CO., for $9,900. Bids were opened Feb 13.

PRINCETON, N. J.—Council is taking bids until March 7 for removal of garbage of the borough.

CHICAGO, ILL.—Following bids were received Feb. 16 by Board Public Works for disposition of garbage and refuse: Standard Construction Co., for the construction of a plant for the disposal of garbage and refuse by incineration, $49,200; De Carie Mfg. Co., construction of a plant, $75,000; Darling & Co., for the collection, removal and disposition of garbage, $1,300,000; Darling & Co., for the disposition of garbage, a year, $22,000; John Dowdle, for the collection, removal and disposition of garbage, a year, $299,228.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—An order was passed by Common Council that the Legislature be petitioned for authority to borrow $600,000 outside debt limit for widening Chelsea St., Charlestown. Wm. Jackson is Cy. Engr.

ALBANY, N. Y.—The Senate Judiciary Committee reported favorably on the bill enabling the State to spend $50,000,000 for good roads.

ALBANY, N. Y.—The Board of Contract and Supply has rejected all bids received for paving of South Pearl St. and Isidore Wachsman, Clk., was directed to readvertise for proposals.

GLOVERSVILLE, N. Y.—It is stated that bids will be called for in the spring for about 10,000 sq. yds. asphalt block or bitulithic pavement.

NEW YORK, N. Y.—The Board of Estimate has set aside $3,000,000 for laying out of small parks and $1,000,000 fof new playgrounds.

NEW YORK, N. Y.—Bids were received Feb. 21 by the President of Bronx Borough for paving with wood block on concrete foundation on E. 165th St., the lowest bidder being Republic Construction Co., 18 Broadway, New York, at $5,591. Same concern at $13,500 was also low bidder for repaving with wood blocks on E. 115th St., and at $11,528 was low bidder for repaving on E. 144th St. Bids were also opened Feb. 21 for repaving with wood blocks on Boston Road, the Republic Construction Co., at $57,356, again being the lowest bidder. Itemized bids for this last piece of work are given under Contract Prices.

SYRACUSE, N. Y.—We are informed that F. J. Baker was the lowest bidder for paving Marshall St., at $8,653 and $8,225 respectively, for brick or asphalt pavement. Frank J. Schnauber is Cy. Engr. Bids opened Feb. 20.

SYRACUSE, N. Y.—Bids are asked by Board Contract and Supply, F. T. Pierson, Clk., until 1.30 p. m., March 6 for furnishing materials and repairing all asphalt pavements during 1905.

PATERSON, N. J.—Wm. L. Dill, Secy. Northern New Jersey Flood Comn., writes us that this city will probably open bids early in April for asphalt paving to be laid at an est. cost of $150,000. H. J. Marder is Cy. Engr., and John Keegan is Cy. Clk.

MEADVILLE, PA.—The following bids were received Feb. 15 for paving Park Ave., 12,000 sq. yds., with (a) brick or (b) asphalt block: W. A. Doane, Cy. Engr.: John Swan, Jr., Allegheny, (a) $28,435, (b) $32,466; Thos. McGuigan, City, (a) $26,933, (b) $32,719; G. Burland, Jamestown, N. Y., (a) $32,297; Harris & Hensley, Yougstown, O., (a) $29,651; John and M. A. McCormick, Erie, (a) $32,683; Burt Smith, Warren, O., (a) $31,884, (b) $32,791; Frederick Robinson, City, (a) $29,035, (b) $34,349; C. E. Klosterman, Pittsburg, (a) $27,118; Jas. Ferry & Son, Crafton, (a) $28,743, (b) $35,965. We are informed that the contract will not be awarded until next meeting of Councils, March 1.

WILKESBARRE, PA.—We are informed that the city proposes to lay about 84,660 sq. yds. brick pavement during 1905. Fred H. Gates is Cy. Clk., and W. H. Ingham is Cy. Engr.

BALTIMORE, MD.—City Council has passed ordinance appropriating $144,500 for street improvements. B. T Fendall is Cy. Engr.

BALTIMORE, MD.—The ordinance authorizing Burnt District Commission to widen Light St., and appropriating $750,000 for the improvement, was passed by City Council.

HAGERSTOWN, MD.—An ordinance was passed by City Council providing for paving of Antietam St.

BALTIMORE, MD.—The ordinance providing for widening of Light St. has been favorably reported to first branch of City Council by Committee on Highways.

WASHINGTON, D. C.—The Commissioners have reported favorably to Congress on the bill to widen a portion of Columbia Road.

WASHINGTON, D. C.—The Senate has passed the House bill authorizing the Commissioners to prepare a new highway plan for that portion of District lying north of Sheriff Road and southeast of the right of way of Alexandria branch of the B. & O. Railroad.

WASHINGTON, D. C.—The bill providing for the widening and improvement of Bladensburg road has been faforably reported on.

ATLANTA, GA.—Bids are asked by Mayor and General Council until March 6 for following work for the year: Furnishing and setting curbing and furnishing material and laying brick sidewalks, constructing lateral sewers, furnishing cement, vitrified pipe and casting for sewer work. R. M. Clayton, Cy. Engr.

ATLANTA, GA.—Bids are asked by W. J. Campbell, Clk. of Council, until March 6, noon, for following materials for use of Department Public Works for 1905: Hard burnt bricks per thousand delivered, Portland cement per barrel delivered, sand per cu. yd., rubble stone per ton, broken stone, 1 to 2½ ins., per ton, stone screenings per ton, chert, to be ordered in 20 or more carload lots. All f. o. b. Atlanta. H. L. Collier, Comr. Pub. Wks.

GAINESVILLE, GA.—Hall County Commissioners are contemplating calling an election to vote on the issuance of $200,000 of bonds for building roads throughout the county.

WAYCROSS, GA.—It is stated that this city contemplates issuing $50,000 of bonds for street paving. Address the Mayor.

BESSEMER, ALA.—Bids are asked by Wm J Parks, Cy. Engr., until March 21 for curbing, grading and laying cement sidewalks on certain streets. Approximate quantities: 25,000 sq. yds. cement walks; 2,000 sq. yds. vitrified brick alley crossings and driveways; 40,000 lin. ft. 5-in. granite curb; 16,000 cu. yds. excavation.

BROOKHAVEN, MISS.—City will construct 16 squares of pressed brick sidewalk, 10 ft. wide. Address the Mayor.

GREENWOOD, MISS.—It is reported that considerable paving will be done by this city in the spring. The paving committee consists of Dr. T. R. Henderson, C. T. Wright, Samuel M. Stein, W. M. Hamner and R. T. Jones.

PASS CHRISTIAN, MISS.—The city will pave sidewalks on Front St. and Davis Ave. with Schillinger pavement. Address Mayor.

LEESVILLE, LA.—We are informed that all bids received by Police Jury, Feb. 15, for grading 30 miles of road were rejected as being too high. J. J. Cryer, Pres., Rosepine, La.

NEW ORLEANS, LA.—W. J. Hardee, Cy. Engr., writes us that funds have been provided and City Council has ordered the paving with asphalt of 33 streets or parts of streets, aggregating about 14 miles in length, and embracing about 240,000 sq. yds. of pavement, which, with sub-surface drains, will cost approximately $985,922. The first of these improvements will be inaugurated within the next 60 days. It is hoped to complete the work within the next 18 months.

ASHLAND, KY.—Bids are asked by R. C. Richardson, Cy. Clk., until March 6 for constructing brick pavements, concrete curb and gutter as per plans and specifications on file in office of City Engineer. Approximate quantities are: 74,800 sq. yds. brick on concrete base and 34,300 lin. ft. concrete curb and gutter with necessary catch basins, etc. C. D. Boggess, Cy. Engr.

PADUCAH, KY.—L. A. Washington, Cy. Engr., informs us that the city is contemplating paving about 50 blocks either with brick, bitulithic or asphalt this year amounting to nearly 100,000 sq. yds. Ordinance for a portion of this work is now before the Council. The kind of material has not been decided upon. There will also be new curbing and sidewalks.

LOUISVILLE, KY.—The Board Public Works has decided to reconstruct with asphalt the following streets: 20th, Fifth and 26th. Est. cost, $37,000. J. B. F. Breed is Cy. Engr.

BOWLING GREEN, O.—It is reported that about eight miles of stone roads will be built in Bloom Township the coming summer.

BUCYRUS, O.—It is reported that the County Commissioners have decided to build nine miles of pike roads during the coming season. $24,000 worth of bonds will be sold March 7 for this purpose.

CELINA, O.—We are informed that the contract for grading and graveling on Gottfried Linn Road was awarded to SPRIGGS BROS., City, for $4,887. M. Lutz, County Engr.

CINCINNATI, O.—Bids are asked by Board Public Service until March 24 for improving Irwin St. by grading, setting curbs and crossings, flagging and paving gutters and macadamizing roadway. Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by County Commissioners until March 18 for improving Compton Road, in Springfield Township, and Eight-Mile Road, in Anderson Township. Eugene L. Lewis, County Audr.

CINCINNATI, O.—Acting City Engineer Breen has submitted to the Board of Public Service a list of 16 streets not under contract for repairs, and 55 streets on which repair contracts expire this year. He recommended that bids be advertised for to keep these streets in repair during the ensuing year at a certain price per square yard. Approved.

CINCINNATI, O.—Bids are asked by Board Public Service until March 20 for setting granite curbs and paving roadway of Smith and Zeltner Sts. Geo. F. Holmes, Clk.

DAYTON, O.—E. A. Freshwater & Sons, New Cumberland, W. Va., were lowest bidders, at $5,890, for paving Curtis Ave. Bids opened by Board Public Service, Feb. 10. F. M. Turner is Cy. Engr.

FINDLAY, O.—J. W. S. Riegle, Cy. Engr., informs us that the first contracts to be let this season will be the paving of Washington St. and Franklin Ave., and they are not yet advertised.

INDIANAPOLIS, IND.—The Board Public Works is preparing to advertise for bids for laying cement walks in Fletcher Ave., Bellefountaine, Dexter and Delaware Sts., and Sherman Drive, and for gravel roadway with brick gutters in 26th and La Salle Sts.

PERU, IND.—We are informed that all bids received by C. W. Macy, Audr., Miami County, Feb. 23, for constructing roads in Harrison Township were rejected and that new bids will be received until April 5.

PORTLAND, IND.—County Commissioners have ordered the construction of 12 miles of gravel roads in Jay County during the coming season.

RENSSELAER, IND.—It is reported that bids will be received by James M. Leatherman, County Audr., until March 15 for construction of Hanging Grove gravel road, about six miles in length.

RICHMOND, IND.—The Board Public Improvements will soon advertise for the improvement of Liberty Ave. by laying cement curbs, gutters, cement sidewalks and rolled gravel roadway.

SOUTH BEND, IND.—A. J. Hammond, Cy. Engr., informs us that bids will be received until March 15, 10 a. m., for paving on a number of streets with brick, approximately $37,215 sq. yds. Est. cost, $52,000.

CALUMET, MICH.—The estimated cost of paving the streets of Red Jacket, the principal municipal division of Calumet, is placed at $165,900. Nearly 33,485 sq. yds. of pavement will be laid and the curbing amounts to 11,602 lin. ft. The state legislature will be asked to authorize the issuing of $200,000 bonds for the paving.

PARIS, ILL.—West Madison St. will be paved this summer. Est. cost, $16,382.

MATTOON, ILL.—Contracts for paving Wabash and Charleston Aves. have been awarded by Board Local Improvements to LOOMIS & ROE, for $7,542 and $9,543, respectively.

LA CROSSE, WIS.—Bids are asked by Board Public Works until April 18 for improvements on State and Division Sts., approximately 11,206 lin. ft., combination cement curb and gutter; 5,100 sq. ft. concrete driveway; 19,207 sq. yds. macadam; 5,130 cu. yds. grading. H. J. Beckwith, Chn.

LA CROSSE, WIS.—We are informed that bids will be opened March 13 for about 25,081 sq. yds. brick paving. Est. cost, $56,644. W. S. Woods, Asst. Cy. Engr.

RACINE, WIS.—Bids are asked by Board Public Works until March 4 for paving Douglas Ave. with brick on a macadam foundation.

SUPERIOR, WIS.—Street Committee of Council has practically decided that a contract shall be let shortly for paving of Winter St.

DES MOINES, IA.—We are informed that the following contracts for street improvements were awarded by Board Public Works Feb. 16: East Tenth St., curbing, 5,218 lin. ft., JAMES MAINE & SONS, City; Harrison Ave., curbing, 1251 lin. ft., CHRISTIE CONST. CO., City; West 23d St., curbing, 2,539 lin. ft., J. MAINE & SONS, West 23d St., paving, 4,354 sq. yds., J. C. LIKES.

LEAVENWORTH, KAN.—City Council has passed resolutions providing for the paving of Fourth St. Edward Jones is Cy. Engr.

PAOLA, KAN.—Bids are asked by E. D. McLaughlin, Cy. Clk., until March 7 for construction of sidewalks for ensuing year.

SOUTH OMAHA, NEB.—An ordinance has been passed by City Council declaring it necessary to curb, grade and pave Missouri Ave. John J. Gillin is Cy. Clk. and Herman Beal, is Cy. Engr.

SOUTH OMAHA, NEB.—We are informed that the contract for paving Missouri Ave. with Purington brick block was awarded to HUGH MURPHY, Bee Bldg., Omaha, for $42,470.

ST. LOUIS, MO.—Bids are asked by Board Local Improvements until March 7 for grading and paving with asphalt and vitrified brick. Waller Edwards, Secy.

HOUSTON, TEX.—Jno. W. Maxey, County Engr., informs us that the contract for paving on Houston Ave., three miles, has been awarded to W. S. HIPP.

SAN ANTONIO, TEX.—It is stated in the "Pink Sheet Daily Bulletin" that considerable paving is to be done in this city. John P. Campbell is Mayor.

CANON CITY, COLO.—Bids will be asked for some time in April for about 196,000 sq. ft. sidewalk and 6,200 lin. ft. crosswalks. W. R. Smythe is Cy. Engr.

TRINIDAD, COLO.—The City Council at a recent special meeting decided to pave Main and Commercial Sts. with vitrified brick.

SEATTLE, WASH.—An ordinance has been passed by City Council for the improvement of Third Ave. and other streets, about five miles, by grading; an ordinance was also passed for the widening of Westlake Ave.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until March 4 for laying concrete walks on Brooklyn Ave. Est. cost, $6,750.

Ordinance has been passed by City Council ordering the laying of concrete walks on Eastlake Ave. and other streets, and the paving of Fourth Ave. and Pine St., with asphalt. Est. cost, $16,150. R. H. Thomson is Cy. Engr.

SEATTLE, WASH.—It is reported that the WALSH CONSTRUCTION CO., of Davenport, Ia., has received a contract from this city for excavation of 1,500,000 cu. yds. of earth.

SPOKANE, WASH.—The Board Public Works, Feb. 10, awarded the following contracts: Sixth Ave., grading, curbing and parking, MITCHELL BROS., for $2,400; Bernard St., grading, curbing and sidewalking, JAMES C. BROAD, for $3,165; Grand St., curbing and sidewalking, JAMES C. KENNEDY, for $9,000. A. F. Gill is Cy. Engr.

SAN DIEGO, CAL.—Board Public Works rejected all bids received for construction of road from 13th St. to San Diego Brewery and for bridge over Chollas Creek as being too high. The Board will re-advertise the contracts. G. A. D'Hemecourt is Cy. Engr.

SAN FRANCISCO, CAL.—Board Public Works has let to FLIN E. TRACY the contract to repave Fourth St., for $17,689.

SAN FRANCISCO, CAL.—Thos. P. Woodward, Cy. Engr., writes us that plans and specifications have been prepared for paving with asphalt on Mission St., from Onondaga Ave. to Porter Ave., and bids for this work will soon be received. Est. cost, $80,000. Mr. Woodward further states that Dolores St., 120 ft. wide, will be parked with four islands in centre of street and with grass plots and trees on sidewalks. Cost, $5,000. Mission St., from Bay to Ninth St., will also be paved and widened. Est. cost $125,000.

VENTURA, CAL.—Bids are asked by Board of Supervisors until March 10, 2 p. m., for construction of new grade to Portero on Hueneme Road. Geo. E. Farrand, Clk.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LAKEPORT, N. H.—Fire destroyed the Bayside Hosiery Mill, Merrill Lumber Co. and Hipwood Car Fender factories, at a loss of $115,000.

NORTH CHELMSFORD, MASS.—The Brookside Worsted Mills was incorporated with a capital of $100,000. Clifford A. Moore is Pres., West Chelmsford.

PEABODY, MASS.—The A. C. Lawrence Leather Co. will erect two six-story frame factories in the spring. Address Walter S. Budgell, Supt.

BARROWSVILLE, MASS.—A new $75,000 bleachery is to be built here. LEWIS J. PIERCE, of Providence, R. I., is the contractor, and Ranson & Hoadley the architects.

WORCESTER, MASS.—The Heywood Boot & Shoe Co., 415 Main St., is to build a five-story brick addition, 30 × 162 ft.

QUINCY, MASS.—The Nelson Mfg. Co. has been incorporated with $20,000 cap. stock to manufacture plumbers' supplies. The company plans to erect a shop in the spring. Albert Nelson is Pres.

HOLYOKE, MASS.—The contract for weave shop, 193 × 230 ft., for Farr Alpaca Co., was awarded to ANDREW D. McCORMICK, 43 Gates St., City. S. M. Green is Arch.

WORCESTER, MASS.—ED. J. CROSS, 82 Foster St., has contract for a two-story brick factory building, 50 × 35 ft., on Hunt St., for Wilson & Smith.

WILLIMANTIC, CONN.—The contract for building to be erected on Main St. for Henry A. Bugbee has been awarded

to G. H. BIXBY, of Charlemont, Mass. Brick, 2 and 6 stories, 40 × 130 ft., with an elevator tower 80 ft. high. Cost, $25,000.

WINSTED, CONN.—The William L. Gilbert Clock Co. is to make considerable addition to its works this season, but details of plans are not yet ready for announcement.

NEW HAVEN, CONN.—The Weibel Brewing Co. award to GEO. BOHN & SONS, the contract for a four-story brick and iron building, 50 × 100 ft.

WILLIMANTIC, CONN.—The Windham Mfg. Co. is contemplating the erection of a weave shed to cost about $125,000.

SYRACUSE, N. Y.—The Kelsey Heating Co. has been incorporated with a capital of $100,000 to manufacture heating and ventilating apparatus. Directors: Royal H. Bradley and Jos. E. Baker, City; Walter W. Cheney, Manlius, N. Y., and Harry Bradley, West Pittston, Pa.

BROOKLYN, N. Y.—It is stated that Bryan G. Green, 229 Pacific St., is having plans prepared for a factory. Cost, $8,500.

SYRACUSE, N. Y.—The Frazer & Jones Co. will erect a foundry as an addition to their plant. R. W. Jones is Pres.

NIAGARA FALLS, N. Y.—The Niagara Tachometer & Instrument Co. has been incorporated here with $200,000 cap. stock. Directors: Chas. R. Huntley, Geo. J. Howard and Addison H. Hinman, of Buffalo. It is the intention of new company to erect and equip a factory at this place.

UTICA, N. Y.—The Delaware, Lackawanna & Western R. R. Co., through L. Bush, Engr., Hoboken, N. J., has invited bids on new repair shops, brick and steel, one and two stories.

BAYONNE, N. J.—A. C. Longyear, Arch., 126 Liberty St., New York, has plans for three brick and stone factory buildings at Bayonne, for Durham Mfg. Co., 377 Pearl St., New York.

CAMDEN, N. J.—The Adams Storage Battery Co., recently organized with $4,000,000 cap. stock, will establish a new plant.

JERSEY CITY, N. J.—The Mierdierick Brewing Co. has incorporated with a capital of $25,000. Incorporators: Meta and J. H. Mierdierick, Bergen, N. J., and Ignaz Kremer, West New York, N. J.

NORTH PLAINFIELD, N. J.—The Vacuum Cleaner Co. has incorporated with a capital of $1,000,000 to manufacture vacuum and other cleaning apparatus. David T. Kenney and Wm. G. Besler, Plainfield, are among the incorporators.

PERTH AMBOY, N. J.—The Perth Amboy Foundry & Machine Co. has incorporated with $100,000 cap. stock. Incorporators: Peter A. Johansen, Mary L. Johansen, Hugh Dickson, all of Perth Amboy.

PHILADELPHIA, PA.—Contract for addition to manufacturing plant at Hancock and Mascher Sts., for J. R. Keim Co. has been awarded to RODYHOUSE, AREY & CO., Fidelity Bldg. Brick, 4 stories, 50 × 100 ft. Dr. Drysdale, Hale Bldg., is in charge of all equipment.

WILKESBARRE, PA.—The Armour Packing Co. has invited bids for remodeling their packing plant. Cost, $60,000.

LANCASTER, PA.—The S. R. Moss Cigar Co., 41 West Lemon St., will soon have plans started for a four-story cigar factory at this place.

CONSHOHOCKEN, PA.—Plans will soon be prepared by John Wood Mfg. Co. for an addition to their plant.

READING, PA.—L. H. FOCHT, Baer Bldg., has been awarded contract for rebuilding dye works of Prospect Dye Works. Brick, 4 stories, 50 x 150 ft. Cost, $15,000.

ALLENTOWN, PA.—Jacoby, Weishampel & Biggin, Archs., Commonwealth Bldg., are preparing plans for an addition to silk mill for Adelaide Silk Mills.

PITTSBURG, PA.—The Somerville Machine & Mfg. Co. will erect a new plant on Second Ave. Brick, 6 stories, 74 × 89 ft.

POTTSVILLE, PA.—The Philadelphia & Reading Coal & Iron Co. has completed plans for an addition to its shops here and for the erection of a general office building.

PHILADELPHIA, PA.—JOHN W. EMERY was awarded contract Feb. 20, to build new $30,000 store and factory building at 12th and Race Sts., for Levi Harrison. Brick, 6 stories, 42 × 72 ft. Herman Miller is Arch.

BEAVER FALLS, PA.—T. S. White, vice-Pres. and Ch Engr., Penn Bridge Co., writes us that plans for rebuilding burned plant have not yet fully matured. A bridge plant at Carnegie, Pa., has been leased so that the company is in a position to complete orders.

PHILADELPHIA, PA.—Henry C. Dahl, 241 South Sixth St., is preparing plans for a factory building. Brick, 4 stories, 60 × 80 ft.

PITTSBURG, PA.—The Kinnear Pressed Radiator Co., composed of Pittsburg and New York capitalists, has secured five acres of land in West Pittsburg and plans have been completed to build a modern plant, 120 × 160 ft., at that place.

ELIZABETHVILLE, PA.—The Old Diamond Slate Co. has been chartered with a capital of $12,500. Harry W. McNeil, 1221 Walnut St., Philadelphia, is one of the incorporators.

BALTIMORE, MD.—The Baltimore Journal Box Co. has been incorporated with $150,000 cap. stock by John W. Woodland, 217 South Charles St.; Elbridge S. Johnson, 211 North Liberty St.; Wm. D. Allen, 211 North Liberty St. and others.

The Baltimore Distillery Co., Warner St., has awarded contract to JACOB PETERS, builder, 411 St. Paul St., for construction of a building to be located at its plant at Highlandtown. Brick, 4 stories, 80 × 119 ft.

Morris & Clifford, Archs., 657 Calvert Bldg., is preparing plans, specifications for a paper box factory to be located at 6-8 South Greene St. for Bartgis Bros. Co., 1030 Linden Ave. Brick, 4 stories, 44 × 82 ft.

Arthur W. Machen, Central Savings Bank Bldg., has awarded contract to JOHN E. MARSHALL & SON, builders, 212 North Calvert St., for construction of a coffee roasting plant at 104-6 South Frederick St., to be occupied by the Merchants' Coffee Co., Monument and Ensor Sts. Brick, 4 stories, 45 × 80 ft.

ALEXANDRIA, VA.—The main building of the Virginia Glass Co.'s plant was destroyed by fire. Loss, about $30,000.

BUENA VISTA, VA.—The Buena Vista Extract Works will be enlarged in the spring to twice its present capacity.

MIDLOTHIAN, VA.—The Marianna Lumber Co., capital $300,000, has been chartered here to do general lumber business. Thos. Armstrong, of Richmond, is Pres.

LYNCHBURG, VA.—It is stated that R. G. Terry will establish foundry and machine shop. Address 809 Court St.

BEDFORD, VA.—W. A. Falconer will erect a flouring mill here.

WHEELING, W. VA.—H. S. Sands Co., 1143 Market St., electrical supply manufacturers, are having plans made for factory building. Brick, 5 stories, 60 × 60 ft.

BROOKLIN, W. VA.—The Crescent Mill Co., capital $25,000, has been chartered here to manufacture flour, meal, all kinds of feeds, etc. Incorporators: Robt. Morris, C. M. Brown, M. M. Morris, S. Bruce Hall, Frank L. Shuman, A. M. Francis, Henry Shutter and others, of New Martinsville, Va.

CHARLOTTE, N. C.—It is reported that the Southern Cotton Oil Co. will erect a plant for the manufacture of felt mattresses. T. H. Benton, of Scranton, Pa., will be in charge.

CENTREVILLE, N. C.—R. H. Griffin will erect a cotton gin here.

GAFFNEY, S. C.—The Piedmont Mineral Springs Co., recently incorporated with $25,000 cap. stock, is having plans prepared by L. Baker for bottling plant.

SENECA, S. C.—J. L. O. King and others are organizing a company to establish a knitting mill. Machinery not purchased as yet.

ST. GEORGE, S. C.—Henry Van Ohsen, of Orangeburg, S. C., has purchased site on which, it is reported, he will erect a plant for the manufacture of carriages, etc.

BENNETSVILLE, S. C.—It is reported that the Southern Cotton Oil Co. will rebuild mill reported burned recently at a loss of $100,000.

SUMTER, S. C.—The Continental Engineering & Equipment Co., of Pittsburg, Pa., will establish a plant here to manufacture cement plaster and building material. W. E. Cochrane is Gen. Mgr.

DALLAS, GA.—The erection of a canning factory here is contemplated. The mayor can probably give information.

CARTERSVILLE, GA.—It is announced that the American Textile Co., which has a large textile plant at Cartersville, will erect an addition to picker building, making it 640 × 130 ft., with a capacity of 60,000 spindles and about 1,100 looms. The improvements will increase the investment of the company from $500,000 to $1,000,000. The company is composed of collar manufacturers at Greenfield, O., who use the Cartersville product in their Ohio plants.

SAVANNAH, GA.—The Knickerbocker Ice Co. will erect a cold storage plant here. Contract has been awarded to J. H. McKENZIE & SONS, of Augusta. H. W. Witcover is Arch.

ATHENS, GA.—W. T. Bryan and other stockholders of Southern Mfg. Co. of this place, will erect a large linen mill here. Machinery has been purchased and work on building will be started at once.

PALMETTO, GA.—The Palmetto Cotton Mills will increase their plant by the erection of an addition 75 × 100 ft., with all necessary machinery, at a cost of $20,000. At present 7,500 ring spindles and 170 looms are operated on duck.

VALDOSTA, GA.—The Cassava Starch Mfg. Co., capital $70,000, has been chartered here to manufacture starch, etc., from Cassaca. Incorporators: I. R. Jeffers, W. E. Algee, J, R. Dasher and others.

MOBILE, ALA.—The Hoffman-Corr Mfg. Co., of Philadelphia, Pa., will probably locate a plant here to manufacture rope, twine and thread. Secretary Commercial Club can give information.

COVINGTON, GA.—G. W. Simmons will establish novelty works and a furniture factory here.

McCARTY, GA.—The Chicamauga Fertilizer Co., it is reported, will expend $50,000 in improvements, including the erection of frame building 140 × 300 ft., which will be equipped with modern machinery for manufacturing sulphuric acid. W. B. Hudson is Mgr.

GRANTVILLE, GA.—Th Grantville Hosiery Mills will expend $75,000 in erecting a mill for manufacturing yarns.

MELROSE, FLA.—It is stated that Yearwood & McDonald are arranging for the erection of another saw-mill; plant will have a capacity of 50,000 ft. of lumber and 75,000 to 100,000 shingles daily.

KEY WEST, FLA.—The Havana American Cigar Co. will erect a new factory at a cost of $40,000.

ANNISTON, ALA.—The plant of Anniston Stove Works will be enlarged and put in operation as soon as possible. New buildings will be erected. C. W. Fouche is Mgr.

SYLACAUGA, ALA.—L. H. Crumpler, Jr., will establish bottling works here.

FORT PAYNE, ALA.—The Fort Payne Stove Foundry was destroyed by fire. Loss between $25,000 and $50,000. Dr. Jeff. Harolson is Pres. and Gen. Mgr.

EUTAW, ALA.—The McClure Lumber Co., capital $150,000, has purchased 5,000 acres of timber land in Greene and Hale Counties and will establish a band mill with a daily capacity of 30,000 ft. for its development. C. F. McClure will be in charge.

PELL CITY, ALA.—A. J. Rhodes, B. G. Rhodes and Mason L. Dean of the Montour Charcoal Co., Kansas City, Mo., will organize the Coosa Chemical Charcoal Co., with $15,000 cap. stock for the establishment of charcoal-chemical plant on a five-acre tract donated by the city. About $10,000 will at once be invested and the plant will consume about 6,000 cords of wood per annum.

JACKSON, MISS.—Reports state that $40,000 factory will be erected here. Secretary of Board of Trade can give information.

JACKSON, MISS.—It is stated that the Mississippi Cottonseed Crushers' Association has been organized to build a cotton seed-oil refinery and by-product plant at a cost of $500,000, and for other purposes. W. H. Madden, of Yazoo City, Miss., is temporary chairman of organization and of committee to confer with makers of machinery for refining.

NEW ORLEANS, LA.—We are informed that this city has decided to erect a municipal plant, which it will operate for the repair of asphalt pavements. An appropriation of $30,000 has been made for the erection and equipment of the plant, and it will be erected as soon as W. J. Hardee, Cy. Engr., has completed plans and specifications, which are now being prepared. Bids will be invited.

MONROE, LA.—E. T. Lamkin, of Monroe, and H. H. Childers, of New York, are organizing a company with $100,000 cap. stock to erect and operate a furniture factury.

LYNNVILLE, TENN.—The citizens will establish a canning factory with a capacity of 4,500 cans per day. The mayor can inform.

JACKSON, TENN.—The erection of a box factory is contemplated. Address R. F. Spragins for information.

KNOXVILLE, TENN.—J. W. Baugher will erect a saw mill here.

JACKSON, TENN.—Chicago capitalists contemplate erecting a $40,000 box factory at this place. Secretary of Board of Trade can inform.

JELLICO, TENN.—A spoke and handle factory will be erected here by T. H. Rodeheaver.

BRISTOL, TENN.—Trigg & White and associates contemplate erecting a cotton mill here in the spring.

MEMPHIS, TENN.—Jos. N. Oliver will erect a cold storage plant. Cost, $100,000.

SOMERSET, KY.—According to orders just issued by officials of Cincinnati, New Orleans & Texas Pacific R. R. Co., work is to commence as soon as weather permits on the building of new shops of the system at Somerset. Cost, $500,000. M. W. Maguire is Div. Supt. and F. Wrampelmeier is Div. Engr., at Somerset.

HENDERSON, KY.—It is reported C. L. Clay is interested in a flour mill to be erected here.

MIDWAY, KY.—The Midway Mfg. Co. has been organized here to establish a soap factory. H. C. Kasselman is Pres.

NICHOLASVILLE, KY.—Nicholasville Ice & Cold Storage Co., recently incorporated with $30,000 cap. stock, will erect two buildings, 24 × 36 ft. and 42 × 80 ft. T. S. Marmion is Engr. in charge, and C. A. Kennedy, Gen. Mgr.

SALT LICK, KY.—Local parties have organized a company to erect a large canning factory. Address the mayor.

HOPKINSVILLE, KY.—R. E. Sturgis, of Chicago, is here organizing a company for the purpose of erecting a $15,000 canning factory.

WINCHESTER, KY.—The Scobee-Williams Spoke Factory, burned recently at a loss of $30,000, will be rebuilt at once.

OWENSBORO, KY.—Bids will be received by Hickman, Ebbert Co. some time in April for constructing a wagon factory, to consist of five buildings. Cost, $65,000. Olaf Z. Cervin, of Moline, Ill., is Arch.

MINERAL RIDGE, O.—The Mineral Ridge Mfg. Co. is preparing to erect a large addition to its plant for manufacture of steam hoists and cages. The company will increase its capital stock to $100,000.

BUCYRUS, O.—The Carroll Foundry & Machine Co. will erect a new steel foundry building this summer, 130 × 300 ft. Considerable new machinery will be installed.

AKRON, O.—The Akron-Selle Co. manufacturer of metallic wagon gears, has purchased property on Belt Railway in Akron and is having plans prepared for a large addition to its plant.

CINCINNATI, O.—A. Kunz, Jr., Arch., 955 West Court St., is preparing plans for a two-story factory building, 40 × 100 ft., for L. Bruder, wagon maker.

Plans are being prepared by Martin Fisher, Arch., 2156 Central Ave., for a two-story brick factory building, 60 × 100 ft., for F. Johnnigman.

Mr. Fisher is also preparing plans for a two-story shop building for W. F. Loesch.

TOLEDO, O.—The Toledo Furnace Co., East Toledo, will erect a large addition to its present building. A portion of the addition will be to the engine room. Another addition will provide additional room for a new furnace and some additional stoves.

TOLEDO, O.—R. L. Morgan, care of Toledo Club, Huron and Madison Sts., will erect a steel plant this season to cost $750,000. Plant will consist of several buildings and will cover about 41 acres of ground along the river.

NORWOOD, O.—The Dana Co., now located in Cincinnati, will move to Norwood, where it will erect a large plant, costing $125,000. Plans for four one-story buildings, 60 × 160 ft., are now being prepared by Bert L. Baldwin & Co., Archs., Perin Bldg., Cincinnati.

CLEVELAND, O.—Architects have been engaged by Winton Motor Carriage Co. to prepare plans for a number of new buildings, which, when completed, will increase the capacity of plant by one-third.

COLUMBUS, O.—J. A. Jones, Arch., 23 Dispatch Bldg., informs us that the contract for five buildings for Darby Canning Co. has been let to Chas. W. Schneider, City. Est. cost of buildings $15,000, and of equipment $25,000.

EVANSVILLE, IND.—ANTON KESSLER is the lowest bidder for construction of Iglehart flour mill, at $22,272.

CRAWFORDSVILLE, IND.—C. M. Gregg & Co. are preparing plans and specifications for a new mitten factory, 175 × 340 ft., in this city.

BOONEVILLE, IND.—The H. M. Dalton Stone Co. has increased its capital from $45,000 to $65,000 and will construct an addition to its plant here. Clark P. White is Pres.

HOLLAND, IND.—The Holland Creamery Association has incorporated with $15,800 cap. stock, with a view of building a creamery here. Incorporators: John Heitman, Henry G. Patberg and others.

NORTH MANCHESTER, IND.—The Laketon Sand Brick Co. has incorporated with a capital stock of $50,000. The company will build a plant to manufacture sand brick, sand blocks, etc. Nelson G. Hunter, Pres.

FT. WAYNE, IND.—The Fort Wayne Stone Co. has incorporated with a capital stock of $50,000. The company proposes to establish a plant and manufacture stoves, ranges, etc. Wm. H. F. Moelling is Pres.

KOKOMO, IND.—Jas. F. Bruff, Arch., is preparing plans for a three-story factory building, 52 × 132 ft., for Apperson Bros.' Automobile Co. Cost, $15,000.

MARION, IND.—The Gemmer Engineering Co. will have plans made for an addition to its factory building. Brick, one story, 50 × 160 ft. Cost, $10,000.

NAPPANEE, IND.—Bids are asked by Coppes, Zook & Mutschler Co. until March 15 for constructing a two-story factory building, 48 × 48 ft. H. F. Frazier, Arch.

MITCHELL, IND.—The Lehigh Portland Cement Co. will soon erect mill No. 2. Among the machinery to be installed will be engine and boilers and three crushers.

SALEM, IND.—The Salem Milling Co. has incorporated with a capital of $30,000. The company will build and operate a flouring mill in Salem. Volney T. Reid is Pres.

GRAND RAPIDS, MICH.—W. A. Chapel, Arch., is preparing plans for a machine shop, to be built by Braudy & Sons, at Alabama and First Sts. Brick, 3 stories, 48 × 148 ft. Cost, $10,000.

DETROIT, MICH.—The entire plant of Detroit Steel Casting Co. was destroyed by fire, including a number of traveling cranes and considerable valuable machinery. Est. loss, $100,000. The company has decided to take immediate steps to rebuild. John S. Newberry is Mgr., 1423 Michigan Ave.

BLISSFIELD, MICH.—It is stated that a $600,000 sugar factory will be erected here. A bonus of $10,000 has been raised by citizens of village, and farmers have contracted to raise 6,000 acres of sugar beets for new factory. The factory will have a capacity of 600 tons of beets daily.

CHICAGO, ILL.—John W. Aregood, Supt. Riverdale plant of Chicago Brick Co. and others are interested in formation of a new brick plant with a capitalization of $[illegible],000, to be known as Aregood Brick Co. The plant will be located on west shore of Lake Calumet, where a 14-acre tract along the lake has been secured. The company expects to be able to manufacture about 80,000,000 brick a year. Cornelius J. Ton, 119 Monroe St., is interested. The company figures on the following expenditures: power plant, $15,000; dredge, $10,000; tug boat, $2,000; [illegible] scows, $5,000; two brick machines, $7,000; two granulators, $1,000; two pug mills, $1,500; one clam shell, $3,-[illegible]; drying capacity, $50,000; shafting and pulleys, $2,-[illegible]; belting $2,000; kiln shed, $15,000; erection, $10,000.

BLOOMINGTON, ILL.—Maurice McCarthy is planning to erect a shop and office building this spring, on West Monroe St.

EAST ST. LOUIS, ILL.—Riester & Rubach, Archs., 225 Collinsville Ave., have prepared plans for a one-story bakery building, 26 × 34 ft., for Fred Hottes, at Market and Eighth Sts.

MILWAUKEE, WIS.—The contract for $60,000 factory building which will be built by Enterprise Box Co., at Canal and 16th Sts., has been let to FRANK LUENZMAN CO. Work is to commence at once.

PORTAGE, WIS.—The Wisconsin Portland Cement Co., recently organized with $750,000 cap. stock, will erect a large plant here. Cost, $500,000. The new plant will have a daily capacity of 1,000 barrels of cement.

SIOUX CITY, IA.—The Great Northern will build a railroad shop here to cost $25,000. F. E. Ward is Gen. Mgr., St. Paul, Minn.

ARGENTINE, KAN.—The contract for construction of substructure for $400,000 elevator which the Santa Fe R. R. Co. will build at Argentine has been let to CHAS. FELLOWS, of Topeka. Work will begin at once.

PITTSBURG, KAN.—Capacity of Pittsburg brick yard of Alphons Custodis Chimney Construction Co., is being trippled. Frank B. Stafford is Consulting Mechanical Engineer for the work.

LEWISTOWN, MONT.—The Judith Basin Milling Co. has decided to replace its old plant with an up-to-date factory. Cost, $50,000.

LITTLE ROCK, ARK.—The Baptist Publishing Co., recently incorporated with $100,000 cap. stock, will expend about $10,000 in the erection of a building and installation of necessary machinery. Address J. N. Hall, Pres., Fulton, Ky.

KANSAS CITY, MO.—J. G. Braecklein, Arch., 15 West Ninth St., has plans for a two-story dye factory, 60 × 138 ft., for Joseph Meyer, 15 West Ninth St.

EAGLE LAKE, TEX.—The Byrd Canning Co. has been organized here for the purpose of establishing a factory. Capital, $10,000. A. Byrd is one of the incorporators.

EL PASO, TEX.—A glass factory is to be erected here, to manufacture bottles and jars. Secretary of Chamber of Commerce can give information.

ORANGE, TEX.—The Yellow Pine Paper Mill Syndicate has awarded the contract for the erection of a new two-story building, 70 × 70 ft. to accommodate the recovery plant which they are adding to their paper mill at this place. An addition to the digester building will also be built. A water-works system for plant is also to be installed and other improvements made.

SAN ANTONIO, TEX.—John M. Stukes, City, contemplates erecting a butter refinery here to have a capacity of about 1,000 lbs. of butter daily.

FORT WORTH, TEX.—It is stated that a paint factory will be established here. Address Secretary Board of Trade for information.

EL PASO, TEX.—The Chamber of Commerce has sent Prof. J. C. Carrera to Paris, France, to close negotiations with French capitalists for the establishment of a silk mill here. It is stated that more than 2,000 people will be employed in the industry when it is fully established. Address Secretary Chamber of Commerce for information.

HOUSTON, TEX.—The Texas Rice Mills, of Houston, capital $60,000, have been chartered to construct and operate a rice mill. Incorporators: W. O. Neuhaus, C. W. Robins, J. V. Neuhaus, C. P. Shearn and Bernard Brown, all of Houston.

AUSTIN, TEX.—The Cordz Milling Co., reported incorporated recently with $75,000 cap. stock, has secured site on which to erect four-story building, which will be equipped for a daily capacity of 350 barrels of flour and meal; about $30,000 will be invested. Machinery has been purchased.

EL PASO, TEX.—W. J. Denigan, of Peru, Ind., has made a proposition to Chamber of Commerce to erect a woolen mill here. The matter is under consideration. Address Secretary Chamber of Commerce for information.

CORSICANA, TEX.—The Corsicana Cotton Mills Co. will enlarge and improve its plant at a cost of $30,000.

COLORADO SPRINGS, COLO.—The Chicago, Rock Island & Pacific, it is reported, is considering the question of building shops at this place. A. B. Warner, Div. Engr., City.

PAUL'S VALLEY, IND. T.—R. M. Bain and others, of Waco, Tex., have purchased property here and will erect an oil mill.

PAUL'S VALLEY, IND. T.—D. B. Hull, of Little Rock, Ark., will establish an ice factory here.

PAOLI, IND. T.—C. R. Du Bond, of Sulphur Springs, Tex., will rebuild cotton gin recently burned.

OKLAHOMA CITY, OKLA.—The Southwestern Cotton Oil Co. will rebuild its oil mill burned recently at a loss of $100,000.

OKLAHOMA CITY, OKLA.—The Pneumoohthysine Chemical Mfg. Co. has been chartered with $25,000 cap. stock. Incorporators: Dr. Samuel A. Gotcher and Oro O. Teeter, of Hobart; Fred. S. and Lester B. Gum, of Perry.

LAWTON, OKLA.—The Humphreys Mill & Elevator Co. has purchased additional property and will erect a 150 barrel flouring mill here.

PORTLAND, ORE.—Permits have been issued to Wilhelm & Meier to erect a brewery to cost $7,000.

BALLARD, WASH.—Plans are being prepared by Pacific Coast Pipe Co. for a factory. Cost, $50,000.

SAN FRANCISCO, CAL.—Frank H. Powers, 24 Nevada Block, City, is organizing a company to manufacture sand brick at Carmel, and is considering a project to establish glass works.

SAN FRANCISCO, CAL.—The National Ice Co., 327 Market St., will shortly make a number of extensions to its plants in California. The company has factories at San Francisco, Los Angeles, Riverside, Stockton and San Bernardino. At San Francisco plant an increase of 60 tons will be made. The capacity of Stockton plant will be doubled. The California Ice Co.'s plant in Oakland and San Jose Ice Works, both controlled by National Ice. Co., will be increased to 30 tons each.

RENO, NEV.—J. Hook, Sec. Reno Brewing Co., has placed an order with VULCAN IRON WORKS, 505 Mission St., San Francisco, Cal., for extensive additions and improvements to company's plant, including a 25-ton refrigerating plant, consisting of a 25-ton ammonia compressor, electric motor and ammonia piping for refrigerating cellars.

WINNIPEG, MAN.—The Anglin Lumber & Pulp Co., recently organized here with a capital of $300,000, propose to operate on the Winnipeg River near Lac du Bonnet, about 65 miles from this city. It is intended to build saw and pulp mills.

HAMILTON, ONT.—The Otis Elevator Co. has decided to double its building and plant and will next summer erect an addition costing $30,000.

VANCOUVER, B. C.—Ross & Howard will erect a large machine shop in the near future.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCH.—Clarion, Ia.—Bids are asked by E. M. Callender, County Audr., until March 15 for ditch work.

CRUISERS.—Washington, D. C.—Bids are asked by Paul Morton, Secy. Navy, until April 15 for constructing three scout cruisers, Nos. 1, 2 and 3.

DITCHES.—Shakopee, Minn.—Bids are asked by J. H. Moore, County Audr., until March 10 for construction of ditch No. 1 and laterals 1, 2 and 3.

DREDGING.—Cleveland, O.—L. P. & J. A. Smith, Cleveland, were low bidders at about $7,000, Feb. 21, for 25,000 cu. yds. dredging in Cuyauoga River for this city.

FIRE HOSE.—Syracuse, N. Y.—Bids are asked by Board Contract and Supply, F. T. Pierson, Clk., until 1.30 p. m., March 6, for furnishing 5,000 ft. of fire hose.

ROCK EXCAVATION.—Boston, Mass.—Bids are asked until March 30 for rock excavation in Boston Harbor. Col. W. S. Stanton, U. S. Engrs. (Advertised, Engineering News.)

DITCH.—Cambridge, Minn.—Contract for constructing judicial ditch No. 1 of Isanti and Kanabec Counties has been let to JOHN A. ERICKSON, Braham, Minn., for $8,475.

CASTINGS.—New York, N. Y.—Contract for 25,000 tons of castings to be used in the North River tunnels of New York & New Jersey R. R. Co. has been let to BETHLEHEM STEEL CO.

LEVEE WORK.—England, Ark.—Bids are asked by Plum Bayou Levee Board, until March 20 for constructing levee containing about 1,403,000 cu. yds. R. B. Eggleston is Ch. Engr.

PIER EXTENSION.—Quaco, N. B.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont., until March 7, for construction of an extension of the east pier at this place.

DRAINAGE WORK.—Fort Dodge, Ia.—Bids are asked by H. S. Holme, County Audr., until March 22 for construction of two joint drainage ditches requiring about 200,000 cu. yds. excavation.

STREET SIGNS.—Columbus, O.—Bids are asked by Chas. H. Frank, Secy. Bd. Pub. Service, until March 15 for 6,000 street signs in place. Julian Griggs, Cy. Engr. (Advertised, Engineering News.)

CABLE.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., 157 E. 67th St., New York, until March 7 for furnishing and delivering 25,000 ft. of underground cable for fire alarm telegraph.

PICKS, SHOVELS, ETC.—Washington, D. C.—Contract for picks, shovels and excavating tools for use on Panama Canal is stated to have been let to BELKNAP HARDWARE & MFG. CO., Louisville, Ky.

CHIMNEY.—Portland, Ore.—Contract for building concrete chimney 265 ft. high for Portland General Electric Co. has been let to CONTRACTING ENGINEERING CO., Chas. B. Hurley, Pres., Tacoma, Wash.

ROAD ROLLER, SCARIFIER.—New York, N. Y.—Bids are asked by Park Board, John J. Pallas, Pres., Arsenal Bldg., until March 9 for furnishing and delivering one steam road roller and one road scarifier.

REBUILDING FERRY SLIPS.—New York, N. Y.—Contract, amounting to $125,000, for rebuilding ferry slips at W. 34th St., for Long Island R. R., has been let to E. B. JENKS CO., 143 Liberty St., New York.

DITCHING.—Stevens Point, Wis.—Bids are asked by Daniel H. Pratt, Secy., Comrs. Portage County Drainage District, until May 10, for constructing six ditches and four lateral ditches, requiring excavation of 1,310,370 cu. yds.

MAIL CONVEYORS.—Chicago, Ill.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until March 15 for auxiliary mail conveyors and other apparatus in U. S. Post Office, Court House, etc., building, Chicago.

BOAT.—Cleveland, O.—Marquette & Bessemer Dock Navigation Co., has let contract for construction of steel car ferry to AMERICAN SHIPBUILDING CO. Boat which will be built in Cleveland yards of company will cost about $350,000.

CONCRETE FOUNDATION.—Detroit, Mich.—Bids are asked by Maj. Lansing H. Beach, U. S. Engrs., until March 22 for material, labor, etc., for construction of concrete foundation for combined tower and dwelling at Saginaw River Range Rear Light Station, Michigan.

SMELTING PLANT.—Boise, Idaho.—Local reports state that Manager J. A. Czizek, of the Lost Packer Mine, has closed contract with the COLORADO IRON WORKS for a smelting plant to be erected at the Lost Packer property, to be in operation by Sept. 1, 1905. Capacity 100 tons daily. It will be erected under supervision of Clement & Strange, Construction Engineers, and will cost $60,000.

PIERS.—Boston, Mass.—Piers Nos. 3 and 4 of the Housac Tunnel docks, owned by Boston & Maine R. R., are stated to have been destroyed by fire Feb. 21, with loss of $400,000. H. Bissell, Boston, is Ch. Engr., B. & M. R. R. It is stated that work of rebuilding will be commenced at once.

DOCKS, ETC.—New Orleans, La.—Nearly a dozen blocks of modern wharves and freight sheds and two grain elevators belonging to the terminals of the Illinois Central R. R. in this city, are reported to have been destroyed by fire Feb. 26. O. M. Dunn, New Orleans, La., is a Supt. Illinois Central R. R.

RIPRAP EMBANKMENT.—Boston, Mass.—Bids are asked until March 27 for furnishing all material and labor for construction of riprap embankment of granite work along east shore of reservation, Fort Strong, Long Island, Mass. Major John E. Baxter, Q. M., U. S. A. (Advertised, Engineering News.)

CEMENT.—St. Paul, Minn.—Koochiching Power Co. is stated to have let contract for 100,000 bbls. of Portland cement to the ALPENA PORTLAND CEMENT CO., Alpena, Mich., for $218,000. The cement is to be used in large part in the construction of pulp mill, paper mill, flour mill, saw mill and dams.

PORTLAND CEMENT.—Cincinnati, O.—Bids were received Feb. 21 by Lt.-Col. E. H. Ruffner, U. S. Engrs., for furnishing 34,000 bbls. American Portland cement for Dam No. 37, Ohio River, the lowest bidder being the Atlas Portland Cement Co., New York, at $51,340 for cement in barrels and $49,640 for cement in sacks.

DREDGING.—Philadelphia, Pa.—Following bids were received Feb. 25 by Bureau Yards and Docks for about 65,000 cu. yds. dredging from Reserve Basin at League Island Navy Yard: American Dredging Co., 510 Mariner & Merchant Bldg., Philadelphia, $9,100; Bowers Hydraulic Dredging Co., 104 Market St., Camden, N. J., $10,725.

ELECTRIC CRANE.—Portsmouth, N. H.—Bids are asked by Bureau Yards and Docks, M. T. Endicott, Ch., Washington, D. C., until March 25, for furnishing in place a 20-ton electric traveling crane for navy yard, Portsmouth. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

FERRY STRUCTURES.—New York, N. Y.—Bids are asked by Maurice Featherson, Dock Comr., until March 13 for furnishing all the labor and materials required for preparing for and removing the present ferry structures at St. George, Staten Island, Borough of Richmond, and building new ferry structures in connection with the new St. George ferry terminal and for dredging thereat.

REPAIRS TO STEAMER.—New York, N. Y.—Bids were opened Feb. 20 by Major G. B. Bingham, Depot Q. M., for repairs to steamer General Barry, two lowest bidders being James Reilly Repair & Supply Co., 229 West St., New York, at $5,410, time 26 days, and the Morse Dry Dock & Repair Co., Brooklyn, N. Y., at $5,419, time 15 days.

EMBANKMENT.—San Francisco, Cal.—Bids were received Feb. 17 by California Debris Commission, Capt. Wm. W. Harts, U. S. Engrs., Secy., for constructing embankment near Daguerre Point, Yuba River, Cal., the two lowest bidders being A. B. Munson, Stockton, Cal., at $24,800, and Edwin Alexander Forbes, Marysville, Cal., at $25,000.

COAL POCKET, MACHINERY, ETC.—Atlantic City, N. J.—Bids are asked by Board Water Commissioners until March 28 for constructing coal pocket, coal elevating machinery and a machine shop and tool house. Kenneth Allen, Engr. and Supt. W.-W. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

PIER WORK, ETC.—New York, N. Y.—Bids are asked by Maurice Featherson, Dock Comr., Pier A, Battery Pl., until March 10 for furnishing all the labor and materials required for preparing for and removing the present pier, old No. 19, East River, Borough of Manhattan, and building a new pier between Maiden lane and Burling slip, to be known as Pier No. 15, or Burling Slip Pier West.

CLEANING CANAL.—Brooklyn, N. Y.—Martin W. Littleton, Borough President, has asked Board of Estimate to apportion $1,000,000 for cleaning out Gowanus Canal. It is proposed to conduct tide water from the East River, through a 6,000 ft. long, 12 ft. diameter, brick or concrete tunnel to the head of the canal.

TUNNEL.—Cripple Creek, Colo.—Local mine owners, according to reports, will construct a new drainage tunnel. It is proposed to construct a tunnel 14,500 ft. long, which will lower the present water level from 730 to 760 ft. below the present drainage tunnel level. The cost will be about $500,000. Mayor W. L. Shackey, Cripple Creek, Colo., and Sherwood Aldrich, Colorado Springs, Colo., are interested.

PIPE LINE.—Pittsburg, Pa.—U. S. Natural Gas Co., of which Major General Charles H. Miller, Franklin, Pa., is a director, has awarded $800,000 contract for 14-in. and 16-in. pipe to NATIONAL TUBE CO., McKeesport, Pa. The gas company contemplates the absorption of the Triplestate and Kanawha Gas Co. of West Virginia, the laying of over 150 miles of lines, and control of nearly 200,000 acres of gas land in West Virginia and Kentucky.

CEMENT.—Minneapolis, Minn.—Bids were received Feb. 24 by Board Public Works, for furnishing cement for street improvements and sewer work. Guarantee Cement & Stone Co., Minneapolis, was low bidder at $22,350 for furnishing 5,000 bbls. Portland cement for paving, cement to be delivered at work. The same company was low bidder at $6,650 for 5,000 bbls. Portland cement, f. o. b. car. For furnishing 15,000 bbls. natural cement for street work Omders Morrison Christenson Co., Minneapolis, at $9,450, f. o. b. cars was low bidder. Same company was also low bidder at $3,250 for furnishing 5,000 bbls. natural cement, f. o. b. cars, for sewer work.

DAM AND BRIDGES.—Phoenix, Ariz.—Following bids were received Feb. 23 by U. S. Reclamation Service for construction of Tonto Dam: American Construction Co., Denver, Colo., $2,444,800, three years; John M. O'Rourke & Co., Galveston, Tex., $1,147,600, two years; B. Zadick & Co., Chicago, Ill., $2,685,900, 30 months; Geddis & Stone Co., Denver, Colo., $1,190,400, 33 months; Roderick & Ward, St. Louis, Mo., $1,187,200, 17 months; Griffith & McDermott, Chicago, Ill., $1,345,790, 30 months; Mason & Hoge, Co., Frankfort, Ky., $1,239,380, 3 years; Ed Mallory & Co., San Francisco, Cal., $1,234,200, 26 months; Johnson, Sherman Construction Co., Oklahoma, $1,601,740, 27 months; McArthur Bros., Chicago, Ill., $1,332,100, 33 months; Carl Leonardt, Los Angeles, Cal., $1,240,600, 23 months; Bentley, Tuttle & Felton Co., San Francisco, Cal., $1,879,500, 28 months; same supplemental bid, $1,846,500, 23 months; Deeks & Deeks, St. Paul, Minn., $1,367,800, 30 months; E. B. & A. L. Stone Co., Oklahoma, $1,397,800, 40 months; Faris & Keisel Construction Co., Boise, Idaho, $1,951,600, 2 years; Pendergast & Clarkson, Chicago, Ill., $1,896,100, 700 days; San Francisco Bridge Co., San Francisco, $1,494,400, 35 months; Winters, Parson & Boomer, Spokane, Wash., $1,431,400, 30 months; Mosier, De Groff Construction Co., Buffalo, N. Y., $1,399,900, 30 months; Burrell Construction Co., Oakland, Cal., $1,433,800, 3 years. R. H. Hood & Co., New York, also offered a bid.

U. S. POSSESSIONS AND CUBA.

PUBLIC WORKS BONDS.—Philippines.—Bids are asked by Bureau of Insular Affairs, War Department, Col. C. R. Edwards, Ch. of Bureau, Washington, D. C., until March 10, for $2,500,000 of public works and improvement bonds, authorized by Act of Congress, approved Feb. 6, 1905.

BUILDINGS.—Porto Rico.—A correspondent in San Juan, Porto Rico, writes us that a number of private houses are being erected in Santurce, a suburb of San Juan. The structures are mostly of wood, considerable of the lumber being brought from New Orleans, La. The chief contractors for this class of work are Gandia Bros., Geo. S. Scales, F. B. Hatch, J. Katz and Axtmayer & Son.

ELECTRIC RAILROAD.—Porto Rico.—The executive council has revoked the franchise of the Vandergrift Construction Co., of Philadelphia, Pa., to build a $3,000,000 electric road from San Juan to Ponce. A correspondent in San Juan, Porto Rico, wrote us under date of Jan. 28 that at that time some opposition had developed to granting a renewal of the above franchise. Several other parties desire the franchise which includes the control of the large Cosmerio Falls, and calls for the construction of an electric road from San Juan to Ponce. The franchise is considered one of the most valuable in Porto Rico.

ELECTRIC PLANT, ELECTRIC RAILWAY.—Cuba.—We are informed that the "Compania Electrica de Santiago," of which Eduardo J. Chibas, Apartado 110 Enramadas Baja 18, Santiago de Cuba, is Vice-Pres. and Managing Director, which is building new plant to supply electric light and power expects to have it in operation by May 1. There is to be sufficient capacity in the building for the installation of a third electric unit and provisions have been made so that the power house can be easily enlarged for the additional machinery that will be required to run the street electric railway that the company contemplates building during the following year.

RAILROAD.—Alaska.—The Alaska Central R. R. is being built from Seward on Resurrection Bay north to the head of navigation on the Tanana River, 463 miles. There is also a branch 30 miles long to the Matanuska coal fields. On Jan. 1 the interests of the original promoters were bought out and the new management will push the construction vigorously. From Seward about 20 miles of roadway have been completed; 50 to 75 miles more of the most difficult work will be built during the coming year. President, A. C. Frost of Chicago; General Manager and Chief Engineer, W. B. Poland; Mr. J. B. Cameron is Engineer of Construction; George A. Kyle is Engineer of Surveys. The general offices are at Seattle, Wash., and at Seward, Alaska.

RAILROADS.—Philippines.—We are informed that owing to the short time which has elapsed since the passage of the act of Congress, approved Feb. 6, 1905, authorizing the Government of the Philippine Islands to guarantee not to exceed 4% interest per annum on a stipulated amount of bonds issued for the construction of railroads by a private corporation or company in the Philippines, the plans in connection with the proposed railways are yet in a formative state, and no definite information as to when construction is likely to begin can be given you at this time. It is probable, however, that in a short time a prospectus will be gotten up showing the general plans for the construction of the railways, which will be given the widest possible publicity through the press, and otherwise, for the information of those interested so that they may be able to take intelligent actions when applying for franchises for the construction of a railway under the provisions of the act of Congress above mentioned. Col. C. R. Edwards is Chief of Bureau Insular Affairs, Washington, D. C.

MEXICO.

SEWERAGE AND PAVING.—City of Puebla.—Governor Martinez, of Puebla, has a project to contract for the sewerage of the city, and asphalt pavements for some of the principal streets.

WATER-WORKS.—San Pedro.—It is stated that Miguel R. Murna will establish a system of water-works for the town of San Pedro, state of Coahuila. The town has a population of about 15,000.

RAILWAY.—Durango.—Final location surveys are well under way for projected extension of Mexican International R. R. from Durango to Mazatlan. Rankin Johnson, Durango, is Asst. Ch. Engr.

RAILROAD EXTENSION.—City of Mexico.—Surveys are reported under way for extension of Hidalga & Northeastern Ry. from Venta Colorado to the Gulf of Mexico. Antonio Caso, City of Mexico, is Ch. Engr.

ELECTRIC LIGHT PLANT.—Temascaltepec.—Municipal authorities have negotiated a contract with the representatives of SENORES FRANCISCO SEGURA Y HERMANO, of City of Mexico, for the installation of an electric light plant in this town.

RAILWAY.—Chihuahua.—A. Rodriguez and Company, owners of the Cagarrera mine, in the state of Chihuahua, have secured a concession for a standard gage railway from a convenient point on the line of the Mexican Central to the mine.

RESERVOIR, SLAUGHTER HOUSE.—Monterey.—Corporation, of which Sewell E. Cross, San Luis Potosi, is Secy., and which owns a hacienda comprising 777,280 acres of land, propose, it is said, to erect a slaughter house and to construct a large reservoir.

BULL RING.—City of Mexico.—A company, of which Thos. Moran is Vice-Pres., and Luis A. Aguilar, Treasurer, both of City of Mexico, has had plans completed and approved for construction of structure for bull fighting and other exhibitions, capable of seating 18,000 people.

STREET RAILWAYS.—Monterey.—William McKenzie, of Toronto, Canada, with other associates, have arranged for the purchase of the concession for electric car lines for Monterey. They are also negotiating with F. S. Slayden, of New York, to buy his system of mule cars and convert the two systems into one electric line.

COPPER FURNACES, ETC.—Torreon.—Compania Metalurgica de Torreon, which owns and operates the large independent smelter at Torreon, state of Coahuila, will install three copper furnaces and a bessemerizing copper plant to its present smelter. At a recent meeting of the stockholders of the company authority was granted for increasing the working capital from $3,500,000 to $5,000,000. Ernesto Madero is Pres.

RAILWAY AND SMELTER.—San Geronimo.—The Mexico & Michoacan Railroad & Construction Co. has been organized to build a railway from San Geronimo, state of Michoacan, to Acapulco, state of Hidalgo. The company holds a concession for the construction and operation of the proposed line. It is proposed, later, to build to Tuxpan, on the eastern coast, thus forming an interoceanic line. The officers of the company are: President, Edmond Power; Vice-President, José Arce; Secretary and Treasurer, Leonides C. Balch, all of the City of Mexico. Among the directors are Colonel Jos. H. Hampson, F. Fernandez Castello, Ambrose C. Kies, C. Gordon Paterson and A. Robles Gil. The company may build a smelter below the El Oro district, and if it is so decided a large plant will be erected.

WATER-WORKS AND SEWERS.—Sinaloa.—THE SINALOA FOUNDRY CO., of Mazatlan, has signed a contract with the government of the state of Sinaloa for the construction of the water-works and sewer systems for that city. It is stated that this company will purchase large quantities of material and machinery in the United States. The work of constructing the two systems will be commenced as soon as the necessary surveys can be made. Inquiries relative to materials or contracts for this work should be addressed to the "Fundicion de Sinaloa," Mazatlan, Mexico.

READERS' WANTS

If any one is in the market for any engineering or con... supplies, the first thing to do is to refer to our advertisi... but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform th... parties without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to ... upon application. This paper will always appreciate any news notes regarding public, or important private work... be pleased to receive detailed items. Requests to hold names will be complied with in every case. Do not fail to ...ite our advertisers or us.

ENGINES AND BOILERS.—Aiken, S. C.—J. D. Prothro is in the market for the above.

BLOWERS.—Richmond, Va.—The Union Trunk & Bag Co. is in the market for blowers.

AGRICULTURAL TOOLS.—South Africa.—Wolff & Co., Pretoria, are in the market for the above.

VARNISHES, PAINTS, ETC.—Brazil.—Manuel S. Carairo, of Bahia, is in the market for the above.

CASTINGS.—Richmond, Va.—The Grasberger-Dorp Trolley Co. is in the market for 5 to 35-lb. castings.

MINING MACHINERY.—Columbus, Ga.—J. E. Weathers, P. O. Box 285, is in the market for the above.

DRY KILN.—Bullock, N. C.—The Royster Mfg. Co. is in the market for a dry kiln of about 8,000 ft. capacity.

BREWERY SUPPLIES.—Peru.—Backus & Johnson, of Callao, want catalogues, etc., regarding the above.

HARDWARE.—Ecuador, So. Am.—Mizaeal Mayolo, of Buenabentora, E., is in the market for the above.

PAVING BRICK.—Meridian, Miss.—Martin & Woodruff, Southern Bank Bldg., are in the market for the above.

CONCRETE MIXERS.—Harvey, Ill.—C. E. Bathrick, 151 155th St., wants catalogues regarding concrete mixers.

SANITARY SUPPLIES.—Mexico.—A. H. Ebright, Mexico City, is in the market for all kinds of sanitary supplies.

WOOD-WORKING MACHINERY.—New Zealand.—Wm. Nees & Son, of Dunedin, want catalogues of the above.

ELEVATOR.—Knoxville, Tenn.—T. W. Keller, 406 Jackson Ave., will likely be in the market for a hand elevator.

GAS STOVES, GAS LAMPS, ETC.—Syria, Turkey.—H. Sabbag & Fils, of Beirut, Syria, are in the market for the above.

ELECTRICAL EQUIPMENT.—Mannington, Ky.—The Mannington Coal & Coke Co. is in the market for the above.

PUMPS, MINING SUPPLIES, ETC.—South Africa.—Herbert Ainsworth, of Johannesburg, is in the market for the above.

200-HP. ENGINE AND BOILER.—Greenville, Ala.—The Henderson Electric Light & Power Co. is in the market for the above.

FERRO SILICON.—Philadelphia, Pa.—Dallett & Co., 201 Walnut St., writes us that they want a carload of ferro silicon.

BUILDING MATERIAL.—Knoxville, Tenn.—The Crown Lumber & Mfg. Co., 617 Prince St., is in the market for the above.

ELECTRIC METERS, ETC.—Savannah, Ga.—The Savannah Lighting Co., Montgomery St., wants prices on wire, meters, motors, etc.

BRICK, TILING, GALVANIZED IRON, CEMENT, ETC.—Ocala, Fla.—McIver & MacKay, P. O. Box 598, are in the market for the above.

IRON WINDOWS, WIRE GLASS, STRUCTURAL STEEL, ETC.—Knoxville, Tenn.—A. J. Cloyd is in the market for the above.

BOTTLING WORKS EQUIPMENT.—Gaffney, S. C.—The Piedmont Mineral Springs Co. is reported in the market for a complete equipment.

BRIDGE.—Winchester, Ky.—The F. & V. Traction Co., J. M. Pickrell, Mgr., is in the market for a bridge over the Kentucky River at Frankfort.

FLINT PEBBLES.—Troy, N. Y.—The Ostrander Fire Brick Co. writes us that it wants the address of firms furnishing flint pebbles for a pebble mill.

BOILERMAKERS' MACHINERY.—Newnan, Ga.—The R. D. Cole Mfg. Co. is in the market for rolls to bend 1-in. plate, 10 ft. wide, and a boilermaker's radial drill.

WOOD-WORKING MACHINERY.—Columbus, Miss.—The Dodson Plow Co. is in the market for machinery for turning out single till plow handle, etc., for plows.

STRUCTURAL MATERIAL, HARDWARE, ETC.—South Africa.—Aburos & Freeby, Archs. and Engrs., P. O. Box 534, Johannesburg, are in the market for the above.

PLANTATION SUPPLIES, ETC.—Brazil.—Behrend, Schmidt & Co., rue Gon Lawara 37, Rio de Janeiro, is in the market for plantation equipment, hardware, etc.

DYNAMO AND SAND BLAST, TRAVELING CRANE, ETC.—Frankfort, Ky.—R. J. Lynch wants the above for granite works; also air compressors, pneumatic tools, etc.

CONTRACTORS, 70-LB. RAILS, TIE PLATES, FROGS, SWITCHES, OVERHEAD WORK, ETC.—Bridgeport, Conn.—The Standish Stone Co., contractors, 1913 East Main St., writes us that it wants the names of contractors who equip electric street railways, and also of firms who can furnish the above-mentioned supplies.

LATHES, FORGES, ETC.—British Guiana, ... Am.—Reginald Younker, Engr., 89 James St., Al...town, Demerara, B. G., writes us that he is in the ...et for the above.

CINDER CONCRETE.—Knierim, Ia.—Moel... Bros., contractors, write us that they want data relat... to cinder concrete. Information relating to weight, ...ength, etc., are wanted.

STEAM SHOVELS.—Zanzibar, Africa.—Geo. R. Brown, Ch. Engr. Zanzibar Ry., Zanzibar (Zanzibar, Africa), writes us that he is in the market for steam sh..., and wants catalogues at once.

WATER GLASS, MAGNESIA AND MAGNESIUM CHLORIDE.—Fort Smith, Ark.—F. Bache, M... Coal Dept., Cherokee Construction Co., writes us that ... wants to purchase the above in large quantities.

GASOLINE ENGINE AND LIGHT WOOD-WORKING MACHINERY.—Pacific Beach, Cal.—W. A. Pike, of Pacific Beach, San Diego Co., writes us that he wants to buy the above, and a rip-saw, band-saw and morti...g machinery.

LIME KILNS, ETC.—Seattle, Wash.—T. Irwin Smith, the Grey Stone, Seattle, writes us that he ex...ts to engage in the lime business and wishes to communicate with persons regarding wooden lime kilns and sy...ems of hydrating.

WELL SINKING MACHINERY.—Formosa, Japan.—F. D. Fisher, U. S. Consul, Tamsin, Formosa, reports that he has inquiries for machinery for drilling oil and artesian wells, and for batteries for telephone and telegraph lines.

MEASURING DEVICES FOR WEIRS.—Pala, Cal.—Geo. Butler, Gen. Supt. of Irrigation, U. S. Indian Service, Pala, writes us that he wants information relating to self-recording devices for continuous measurement of flow over weirs. Catalogues are wanted at once.

BELGIAN BLOCKS, ROOFING TILES, STEEL DRAINAGE GATES, ETC.—Pittsburg, Pa.—Jno. W. Kelly, Pur. Agent, Sand Filtration Corporation of Am., 2530 First St., Washington, D. C., writes us that he wants the names of manufacturers of the above, located around Pittsburg.

LIME KILNS, RIVER BOATS, PORTABLE RAILWAYS, IVORY WORKING MACHINES, ETC.—H. M. Wilson, 21 Eastbourne Road, Newton Centre, Mass., writes us that Senor Florencio Duarte, of Girardot, Dept. de Cundinamarca, Colombia, So. Am., is in the market for the above-mentioned supplies.

HAND TELEPHONES.—Dayton, O.—H. E. Talbott & Co., Engrs. and Contractors, write us that they want to use small hand telephones for signalling, in connection with the working of two traveling cableways. The telephones will be exposed to the weather. Catalogues from manufacturers are wanted at once.

COALING STATION, WOODEN WATER TANK, 75 TONS STRUCTURAL MATERIAL, 670 TONS OF 45-LB. RAILS, EIGHT FROGS, THREE CATTLEGUARDS, 21,000 FIR TIES, FOUR CROW BARS, TWO CLAW BARS, FOUR TAMPING BARS, FOUR PICKS, TWO TANK GAGES, ONE TRACK JACK, ONE TRACK DRILL, HAND CAR, PUSH CAR, ETC.—The Dalles, Ore.—A. J. McMillan, Ch. Engr. State of Oregon Ry., writes us that the above will be required at once for the proposed railway, to be 8½ miles long. The contractors are Nelson & White, of The Dalles.

PLATE GLASS, ETC.—St. Augustine, Fla.—R. N. Dickey, Gen. Mgr. St. Augustine-So. Beach Ry., 83 Cedar St., writes us that he would like to have prices on plate glass, American and French; sizes wanted, about 8 × 12; also plate glass mirrors, etc. It is understood that Mr. Dickey may soon be in the market for air compressors, cement, concrete mixers, electrical supplies, pneumatic tools, pumps, wire rope, screens, surveying instruments, etc.; fire alarms, catch-basins, concrete work, conductor pipe, expanded metal, hardware, hose, hydrants, lavatories, paint, pipe, plumbing, water tank, telephone system, water supply, drafting room supplies, dynamos, motors (6-HP.), refrigerators, shafting, etc.

500,000 BRICK, CATCH-BASINS, CENTRAL HEATING STATIONS, COAL-HANDLING MACHINERY, CONCRETE CONSTRUCTON, CONDUITS, CRANES AND HOISTS (15 tons); FUEL ECONOMIZERS, ELECTRIC PLANT, ELECTRIC PUMP, FILTERS, FIRE HOSE, HYDRANTS AND VALVES, MANHOLES, PAVING BLOCKS, PILING, PIPE CUTTING MACHINES, PNEUMATIC TOOLS, PUMPING ENGINES, ROAD ROLLER, SEWER PIPE, WATER PIPE, ETC.—Pittsburg, Pa.—Morris Knowles, Ch. Engr. Bureau of Filtration, City Hall, writes us that the above are wanted in connection with the proposed improvements to the water-works, recently advertised in Engineering News.

ELECTRIC PLANT.—Culiacan.—The Culiacan Electric Co., with principal office at 303 California St., San Francisco, Cal., is ready for a three-phase generator of moderate size and for other equipment for an electric lighting plant at Culiacan, State of Sinaloa, Mexico. The company will secure practically all of its equipment and supplies in the United States, shipping these by water from San Francisco. Concessions for electric railways and for local and long-distance telephone lines have been secured by the company from the State of Sinaloa. Sidney Sprott, 205 Crocker Bldg., San Francisco, is Gen. Mgr. of the company, and F. G. Braue, 303 California St. is Secy.

FOREIGN CONTRACTS—EXPORT NEWS.

RAILWAY.—Japan.—A Fudgi, of the Railway Works Bureau, Yokote, Ugo, Japan, writes us that he has been making surveys in a mountainous part of the province of Ugo for a new railway.

CANALS.—Prussia.—Committee on Canals of the Prussian Diet has reported, with a favorable recommendation, a bill providing for the construction of canals, the entire cost of the projects named in the bill being set at $79,628,850.

RAILWAYS.—India.—Government of India has sanctioned survey of following lines in connection with Burma Railway Extension Survey: East Daga Railway Survey, 62 miles; Pegu-Synam Railway Survey, 67 miles; Moulmein-Amherst Railway Survey, 46 miles. The surveys have been placed under the control of the Government of Burma.

RAILWAY CONSTRUCTION.—France-Indo-China.—A decree has been published authorizing the construction of the following railways in Indo-China: Extension of the Saigon railway to Khan-Hoa—cost, $5,840,000; a line from Phan-rang to Danhim, being the first section of the Lang-Bian branch line—cost, $3,300,000; a line from Hué to Kwangtri—cost, $1,460,000.

RAILROAD.—Ecuador.—A party of engineers has sailed for Ecuador where they will have charge of the construction of a railroad from Guayaquil to Quito, a distance of 500 miles. The railroad, which is backed by Archer Harrison, an American capitalist, will cross some of the highest mountains in South America. The engineering party was organized by James A. Stewart, C. E., Johnson Bldg., Cincinnati, O.

HYDRO-ELECTRIC PLANTS.—Italy.—Concessions for the use of water for industrial purposes have been granted as follows: Concession granted by the Prefect of Verona to Signor Stefano De Stefani, of Verona, for an appropriation from the River Valo Pisotte, in the Commune of Ferrara, Monte Balbo, and Brentino; Concession granted by the Prefect of Turin to Signor Cesare Gasca, for an appropriation from the Dora Riparia, in the Territory of Rivoli.

WATER PURIFICATION WORKS.—Spain.—An international competition has been instituted for the best project for purifying the waters of the Isabel II. Canal, providing not only for the installation of filter beds, but for the treatment of the whole of the water before distribution. Projects, accompanied by full explanatory details, models,

etc., will be received at the "Alcaldia Presidencia," Madrid, until March 31. A pamphlet containing full particulars of the competition may be obtained by intending competitors from the "Laboratorio Quimico Municipal," Madrid.

PUBLIC WORKS.—Brazil.—The Budget for 1905 contains the following items: Ministry of Marine is authorized to expend $368,500 on the construction of submarine vessels built on the plans of Brazilian inventors; Ministry of Industry, Railways and Public Works is authorized to expend $38,000 for completion of works on Thereza Christina Ry. and for carrying out necessary studies for construction of Massiambue-Arangua line; $165,000 on improvement of navigation of various rivers; $440,000 on elevating S. Diogo-S. Christovao section of Central Ry., and $137,500 on the development of coal mines of Brazil.

WATER-WORKS.—Korea.—Gordon Paddock, U. S. Consul-General at Seoul, Korea, reports that the American company which holds a franchise for construction of water-works for Seoul is to commence construction work in the spring. The water for the new system is to be taken by centrifugal pumps from the Han River, some five miles above the city. After passing a system of rapid mechanical filtration, the water will be pumped to the city by two high-duty triple-expansion pumping engines, each of a capacity of 5,000,000 gallons. The system of piping for distribution is to consist of 54 miles of cast-iron pipe, of from 4 to 24 ins. diameter, and a large number of fire and domestic iron hydrants. Pressure in the pipes is to be maintained, besides the pumps, by a steel standpipe located near the city.

RAILWAY CONSTRUCTION, ETC.—Italy.—A commission appointed to consider the best method of improving the railway service to Genoa has made its report to the Minister of Public. According to the report, the following works are urgently needed: Enlargement of the stations at Genoa, Sampierdarena, Ronco, Busalla, Pontedecimo Novi and San Rovo; systematization of the stations at Milan; instalment of the block-signaling system between Voghera and Rogoredo; redoubling of the line between Torreberetti and Novara; enlargement of the stations at Alessandria, Novara, Turin, and various smaller towns in Piedmont and Lombardy; redoubling of the line between Genoa and Chiavari; enlargement of the station at Sestri Levante; construction of a new station and enlargement of various stations between Sestri and Spezia; redoubling of the line between Genoa and Voltri; instalment of the block-signaling system between Sampierdarena and Savona; systematization of the stations at Arenzano, Cogoleto, Varazze and Celle; enlargement of the station at Savona. The carrying out of the improvements recommended, which include the construction of 50 kilometers of railway line, would involve a total expenditure of about $25,960,000.

RAILROADS.—Peru.—According to a recent report of Alfred L. M. Gottschalk, U. S. Consul at Callao, Peru, the present Government of Peru has among its chief aims that of covering the country with a network of railways and of doing all that is possible to encourage foreign immigration and colonization. The Government is prepared to give to concessioners valuable considerations in the way of land grants, guaranteeing a certain sure percentage on the amounts invested, etc. The opening of the Panama Canal will place Peru in comparatively close touch with the United States, and the facilities offered to foreign concessioners will naturally be fewer then than they are today. Seven new railroads are now projected, as follows:

Oroya to Huancayo.—Road is to have approximate length of 13 miles; construction was to be commenced by Peruvian Government in January, 1905.

Sicuani to Cuzco.—Approximate length, 87 miles; construction was to be begun by Government in January or February, 1905.

Oroya to Ucayoli.—Approximate length of 248½ miles: now under Government survey, and construction is to be commenced in 1906.

Puira to Pongo de Manseriche.—Concession granted to Pacific Co., New York City; road is to be about 310 miles long, and construction work must be commenced in 1907.

Lima to Pisco.—"The Peruvian Corporation," a British syndicate already controlling certain railroads in Peru, will construct this road, which is to be about 140 miles long.

Chimbote to Recuay.—English syndicate is reported to have been formed to construct this road, which is to be some 137 miles long.

Bayovar to Sechura.—Some 15.5 miles are now under construction by the parties interested in the Sulphur beds at Sechura.

PUBLIC WORKS.—Argentina.—Our correspondent in Buenos Aires has sent us the following information concerning projected public and private work in this country:

Railway.—The Argentine Railway Co., recently formed in London under the direction of Mr. Edward Casey for the construction of the line from Chacabuco to San Luis, will soon issue $7,500,000 in debentures to set the business on foot.

Electric Tramway.—A contract was signed Dec. 21 by the Mayor of Buenos Aires for the concession granted to Messrs. Lacaze and Sawyer, for an electric tramway joining up the Western suburbs of the Federal Capital. It is understood here that a French syndicate have already taken up the concession with a view of building the lines which will finally be brought to the center of the city.

Buoys.—A decree, signed in Cabinet Council, has accepted the offer of Mr. J. P. BREDIUS, on behalf of the Pintch's Patent Lighting Co., to supply 100 luminous buoys with apparatus for intermittent light and with pieces for repairs at the price of $139,997 gold.

Electric Tramway.—Lacroze Brothers, owners of Rural Tramway Co., have resolved to electrify their lines in the center of the city, and also that section of their steam tramway which runs to the town of San Martin.

Railway Extensions.—The capital of the Great Western (Buenos Aires & Western) Railway Co. is to be increased some $5,000,000 gold for the purpose of carrying out several new extensions already agreed to and others in contemplation.

Railway Extension.—The Bahia Blanca & Northwestern Ry. has completed survey for extension of its line from Nueva Roma to Catrilo, about 360 kilometers, and will commence constructing the same at once. It is also completing arrangements to continue the extension on to Huinca Renanco, and another branch from Canada Verde to Pedernera.

Electric Tramway.—Messrs. R. Van Wertz & Co. have applied to the Buenos Aires Municipality for a concession for an electric tramway to serve several districts.

Electric Tramways.—On Jan. 1 F. Nippel, of Buenos Aires, Gen. Mgr. Anglo Argentine Tramway Co., took over the system of the City of Buenos Aires Tramway Co. on behalf of his company. The work of electrification will commence at once, the plans having already been approved by the Municipality.

Rolling Machine Plant.—The iron foundry "La Acero Planteuse," of Buenos Aires, is about to be equipped with a modern rolling machine plant for the conversion of scrap iron into wrought iron, to be used principally in the manufacture of articles for agricultural machinery.

Tramways.—E. Tornquist & Co., of Buenos Aires, have presented to the La Plata Government a project for the construction of 1,150 kilometers of light railway in the Province of Buenos Aires.

Port Improvements.—The President of the Commission appointed to advise the Minister of Finance upon the best mode of exploitation of the Port of La Plata has reported that the works hereunder mentioned are urgently necessary for facilitating shipping operations: Construction of three sheds for receiving grain, like those now existing, which would cost $162,000 (national money). Movement and widening of 5,600 lineal meters of railway and arrangement of the points at a cost of $112,000 (national money). Widening and change of the platforms of seven warehouses whose superficies is 5,608 meters; cost, $39,256 (national money). Extension of the line which the office of Service and Preservation of the port is now constructing in the ante-port, so as to effect a junction with the Southern Railway, and to permit the removal of that company's line on the public road. Habilitation for the reception of inflammables of the "galpon" now used by the sub-Prefecture as a store for merchandise. Reconstruction of the pavement in an extent of 3,000 meters. Compelling the small boats, which occupy the places suitable for ocean steamers, in front of the ante-port, to remove to other points to be fixed in due course of time. Repairing the 40 wagons belonging to the port. Reconstruction of the draw bridge. Purchase of 4 boats for making soundings. Repairing the hydraulic machines and the 28 cranes; at present only 4 cranes can be worked.

CONTRACT PRICES.

*EMBANKMENT.—San Francisco, Cal.—Following bids per cubic yard were received Feb. 17 by California Debris Commission, Capt. Wm. H. Harts, U. S. Engrs., Secy., for constructing 200,000 cu. yds. embankment fill near Daguerre Point, Yuba River, Cal.: H. J. and J. D. Carstenbrook, Marysville, Cal., 16½ cts.; Edwin Alexander Forbes, Marysville, Cal., 12½ cts.; G. W. Cushing, San Francisco, Cal., 18⅞ cts.; Lewis Moreing, Stockton, Cal., 16 cts.; W. J. Schmidt, Berkeley, Cal., 17½ cts.; North American Dredging Co., San Francisco, Cal., 22 84-100 cts.; A. B. Munson, Stockton, Cal., 12 4-10 cts.

DREDGING.—New Orleans, La.—Following bids were received Feb. 18 by Capt. J. F. McIndoe, U. S. Engrs., for dredging channel near west shore of Sanbine Lake; (1) being bid per cu. yd. for dredging, and (2) bid per lin. ft. for revetment: Rittenhouse Moore, P. O. Box 103, Mobile, Ala., (1) 16 3-10 cts., (2) $12; North American Dredging Co., 3 California St., San Francisco, Cal., (1) 20 cts., (2) $15; Bowers Southern Dredging Co., Galveston, Tex., (1) 18½ cts., (2) $11.90; Walter J. Keegan, P. O. Box 706, Sta. C, New Orleans, La., (1) 12½ cts. Matter of making recommendation as to award under advisement, pending action by Congress on River and Harbor bill.

BRICK PAVING.—East St. Louis, Ill.—Bids were received Feb. 18 by Board Local Improvements for paving 14th St. for length of 800 ft. and width of 31 ft., with vitrified brick. The work is guaranteed for one year; paving is to be laid in 6-in. concrete foundation, and combined curb and gutter with 6-in. top is to be laid. Work is to be in charge of W. J. Crocken, Cy. Engr. The bids received were as follows: (1) being bid for 965 cu. yds. earth excavation, (2) for 2,620 sq. yds. paving, and (3) for 1,546 lin. ft. curb: Hill Gaynord Const. Co., 68 Walnut St., East St. Louis, Ill., (1) 21½ cts., (2) $1.55½ (Albion brick), (3) 94 cts.; McCak & Co., 411 Olive St., St. Louis, Mo., (1) 20 cts., (2) $1.48 (Wabash), (3) 88½ cts.; M. J. Keeley, 1616a State St., East St. Louis, Mo., (1) 25 cts., (2) $1.60 (Albion), (3) 90 cts.; Geisel Const. Co., Kapen Bldg., St. Louis, Mo., (1) 40 cts., (2) $1.73 (Alton), (3) 94 cts.; Sweeney & Conan, St. Louis, Mo., (1) 25 cts., (2) $1.65 (Albion), (3) 90 cts.; Wolf, Maupin & Curdy, Alton, Ill., (1) 20 cts., (2) $1.52 (Alton), (3) 94 cts.

WOOD BLOCK PAVING.—New York, N. Y.—Following bids were received Feb. 21 by President of Bronx Borough for repaving with wood blocks on concrete foundation roadway of Boston Road; (1) Franklin Contracting Co., 1 Hudson St., New York; (2) U. S. Wood Preserving Co., 29 Broadway; (3) Eppinger & Russell Co., 68 Broad St.; (4) P. I. Kearns, 438 East 91st St.; (5) Republic Construction Co., 18 Broadway, all New York bidders:

Bids received at New York, N. Y., February 21, 1905, by President of Bronx Borough, for Repaving with Wood Blocks on Concrete Foundation, Roadway of Boston Road.

Items.	(1)	(2)	(3)	(4)	(5)
20,200 sq. yds. completed wood block pavement and keeping the same in repair for five years	$2.30	$2.24	$2.46	$2.40	$2.64
2,850 cu. yds. concrete, including mortar bed	6.25	5.25	6.50	4.90	.01
3,000 lin. ft. new curbstone, furnished and set in concrete	1.00	.95	1.00	.95	1.00
2,500 lin. ft. old curbstone, rejointed, recut on top and reset in concrete	.40	.35	.50	.30	.40
Totals	$68,272	$63,935	$72,467	$66,045	$57,356

TUNNEL.—Boston, Mass.—Following bids were received Feb. 14 by Boston Transit Commission for constructing Section 4 of Washington St. Tunnel, (1) being Jones & Meehan, 1 Beason St., Boston; (2) Shailer & McCormick, 101 Tremont St., Boston; (3) Gow & Palmer, 50 Congress St., Boston; (4) Coleman Bros., 15 Court Sq., Boston; (5) Seeley-Taylor Co., Tremont Bldg., Boston; (6) Patrick McGovern, 6 Beacon St., Boston; (7) HUGH NAWN CONTRACTING CO., 82 Savin St., Boston (awarded contract):

BIDS RECEIVED AT BOSTON, MASS., FEBRUARY 14, 1905, BY BOSTON TRANSIT COMMISSION, FOR CONSTRUCTING SECTION 4 OF WASHINGTON ST. TUNNEL.

Items.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
49,000 cu. yds. earth excavation, including backfill	$4.60	$5.30	$5.00	$4.50	$4.60	$4.75	$5.00
200 lin. ft. excavation by tunnelling for sewer in Summer St., backfill, etc	15.00	20.00	15.00	12.00	12.00	22.00	17.00
8,500 cu. yds. concrete for all purposes except item c	10.00	11.50	12.50	11.50	12.00	12.50	11.00
1,500 cu. yds. concrete for roof north of station 23 + 11	12.00	14.50	14.00	13.00	14.00	13.50	15.00
300 cu. yds. brick masonry for manholes, sewers, piers for water pipes, etc	20.00	18.00	18.00	20.00	22.00	16.00	17.00
Laying 200 lin. ft. 24-in. vitrified pipe for sewer	2.00	1.50	1.00	1.00	2.00	2.00	1.25
Laying 700 lin. ft. 18-in. vitrified pipe for sewer	1.50	1.30	.70	1.00	1.80	1.50	1.00
Laying 760 lin. ft. 15-in. vitrified pipe for sewer	1.20	.80	.60	.75	1.50	1.00	.70
Laying 700 lin. ft. 8-in. vitrified pipe	1.00	.60	.30	.50	1.20	.75	.60
Laying 60 lin. ft. 6-in. vitrified pipe	.90	.50	.20	.40	1.00	.30	.50
Laying 1,000 lin. ft. 3-in. and 4-in. vitrified pipe	.80	.40	.15	.25	.80	.15	.30
Setting and securing 200 tons steel weighing less than 6 lbs. per lin. ft	14.00	13.00	12.00	15.00	25.00	15.00	12.00
Setting and securing 500 tons steel weighing 6 lbs. or more per lin. ft	14.00	15.00	15.00	20.00	25.00	20.00	15.00
3,000 sq. yds. coating of Portland cement mortar	.50	.60	.50	.75	1.00	.50	.50
10 cu. yds. grout, one part Portland cement to one part sand	25.00	28.00	25.00	50.00	25.00	20.00	25.00
11,000 sq. yds. waterproof coating, pitch or asphalt	.50	.40	.50	.40	.75	.40	.30
19,000 sq. yds. tarred felt, pitch, etc	.30	.15	.25	.20	.50	.25	.20
Totals	$515,066	$490,698	$487,068	$481,194	$478,525	$469,203	$466,482

*PORTLAND CEMENT.—Cincinnati, O.—Following bids were received Feb. 21 by Lt.-Col. E. H. Ruffner, U. S. Engrs., for furnishing about 34,000 bbls. American Portland cement for Dam No. 37, Ohio River, cement to be delivered at Fernbank, O.; (1) being bid for cement in barrels, and (2) for cement in sacks: Alpha Portland Cement Co., Easton, Pa., Alpha, (1) $1.65¼, (2) $1.73½; Castalia Portland Cement Co., Pittsburg, Pa., Tiger, (1) $1.80, (2) $1.78; Ironton Portland Cement Co., Ironton, O., Limestone, (1) $1.62, (2) $1.64; Virginia Portland Cement Co., New York, Old Dominion, (1) $1.63, (2) $1.71; Atlas Portland Cement Co., New York, Atlas, (1) $1.51, (2) $1.46; Contractors & Builders' Supply Co., Cincinnati, O., Saylors, (1) $1.78, (2) $2.15.

*BUILDING BRICK.—New London, Conn.—Following bids per 1,000 were received Feb. 21 by Lt.-Col. Chas. F Powell, U. S. Engrs., for furnishing 332,000 building brick; (1) being bid for brick at New London, and (2) for brick at Islands: James R. Sayre, Jr., & Co., New York, (2) $10 Plum, $9.50 Fishers, ordinary building brick; New England Brick Co., Boston, Mass., (1) $16, ordinary building brick; C. T. Willard Co., New York, (2) $15.50, hydraulic pressed, wire cut; Charles Warner Co., Philadelphia, Pa., (2) $15, patent grey pressed brick; F. H. & A. H. Chappell Co., New London, Conn., (1) $8.30, ordinary building brick; Clay Product Supply Co., Philadelphia, Pa., (1) $22.50 repressed, hydraulic pressed, wire cut, $19.50 wire cut; William Wirt Clark & Son, Baltimore Md., (1) $16.50, hydraulic pressed, wire cut; Warner-Miller Co., New Haven, Conn., (1) $11.90, hydraulic pressed, red, wire cut.

PIPE SEWER.—Houston, Tex.—Bids were received Feb. 6 by Arthur Lipper, Cy. Secy., for constructing pipe sewer in Louisiana St. Bid per lin. ft. includes excavation and repaving; pavement is gravel, and there is no trenching; F. L. Dormant is Cy. Engr. Bids received were as follows: (1) Collins Bros., Houston; (2) W. S. Hipp, Houston; (3) Suderman, Dolson & Co., Houston; (4) C. S. Tucker, Houston; (5) J. C. Kelso, Galveston, Tex.; (6) F. J. Sargent, Brownsville, Tex.; (7) E. G. Trueheart, San Antonio, Tex.:

Bids received at Houston, Tex., February 6, 1905, by Arthur Lipper, City Secretary, for Constructing Pipe Sewer in Louisana Street.

Items.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Concrete, as required	$8.00	$8.00	$6.50	$7.75	$6.25	$6.00	$10.00
Brickwork, as required	22.50	22.00	22.00	20.00	20.00	20.00	20.00
22 manholes	60.00	49.40	65.00	65.45	75.00	42.50	47.00
4 flush tanks	80.00	90.00	100.00	96.80	90.00	72.00	60.00
Lumber, as required	25.00	30.00	30.00	27.00	30.00	20.00	25.00
8-in sewer, 6 ft. deep	.45	.50	1.16	.92	.40	.65	.52
8-in. sewer, 6—8 ft. deep	.50	.50	1.26	1.09	.50	.72	.58
15-in. sewer, 6 ft. deep	.95	1.50	1.50	1.50	.80	.92	1.04
15-in. sewer, 6—8 ft. deep	1.05	1.50	1.70	1.80	.80	1.07	1.12
24-in. sewer, 6 ft. deep	2.13	3.39	2.36	2.70	2.00	2.55	2.13
24-in. sewer, 6—8 ft. deep	2.35	3.39	2.46	3.13	2.00	2.75	2.20
24-in. sewer, 8—10 ft. deep	2.57	3.39	2.63	3.76	2.36	3.21	2.44
24-in. sewer, 10—12 ft. deep	2.80	3.39	2.85	4.11	2.55	4.11	2.67
Catch basins	60.00	47.50	55.00	51.70	50.00	47.00	40.50
Totals	$16,520	$22,368	$17,474	$22,476	$15,476	$19,340	$15,525

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE LOMBARD GOVERNOR CO., Ashland, Mass., states that it has moved its factory to Ashland.

HUGHES BROS. & BANGS, formerly at 1 Madison Ave., have moved their offices to Rooms 1004, 1005, 1006 and 1007 Hanover Bank Building, corner Nassau and Pine Sts., New York City.

THE FEDERAL MFG. CO., 1290 Old Colony Bldg., Chicago, reports that it wants to be placed in correspondence with persons or firms in the eastern states who control specialties in the machinery or hardware line.

L. J. WAGNER AND CHAS. R. PORTER, of Rome, Ga., announce that the partnership heretofore existing between them, doing a contracting business under the firm name of Walton & Wagner Construction Co., has been dissolved.

QUEEN & CO., Inc., of Philadelphia, the makers of scientific appliances, have, to meet the increased demands of their business, removed their instrument factory from Filbert St. to the Cornelius Building, 817-831 Cherry St.

THE MARINE ENGINE & MACHINE CO., of New York, state that it has just closed the contract for equipping the two sub-stations at East 19th St. and West 96th St. of the Interborough road with direct connected electric elevators.

THE ROBERTS MFG. CO., Philadelphia, has recently secured contract for a 1,000,000-gallon filter plant from the City of Independence, Kan.; also has recently completed a 1,000,000-gallon filter plant for the Havre de Grace (Md.) Water Co.

THE WATSON WAGON CO., Jamestown, N. Y., writes us that it has recently been allowed a patent on an all-metal window screen, composed entirely of non-rustable material. It works on the same principle as the wooden frame screws, which the firm makes.

THE WEBER STEEL-CONCRETE CHIMNEY CO., of Chicago, announces that Mr. J. P. Johnston, who was formerly Western Sales Manager of the Alphons Custodis Chimney Construction Co., is now connected with the former company as General Sales Manager, with offices in Chicago.

THE ALMA CEMENT CO. will remove their General Sales Office on Feb. 1 from the Land Title Bldg., Philadelphia, to Wellston, O. The Alma Cement Co. have abandoned the use of rolls for the preliminary reduction of clinker and have substituted therefor Smith kominuters for coarse grinding.

THE A. S. CAMERON STEAM PUMP WORKS, New York, reports that the University of Tennessee, Knoxville, Tenn., have purchased, through McClurg & Co., agents, in Knoxville, a Cameron Regular Boiler Feed Pump, as a part of the laboratory equipment in the mechanical engineering department for the use of students in laboratory tests.

MONARCH RAILWAY SUPPLY CO., of Detroit, Mich., has been organized to handle railway specialties. It will manufacture the Daly spike and other specialties, and has made arrangements with the Pressed Steel Car Co. for the sale of its trucks, bolsters, brake beams, and steel car-Building, Detroit, after May 1, 1905. Mr. Harry W. Frost is President.

THE INGERSOLL-SERGEANT DRILL CO., New York, reports that the American Car & Foundry Co. in equipping its new English shops where the steel cars for the London Underground Ry. are to be built, has purchased from the Ingersoll-Sergeant Company its entire pneumatic equipment, including air compressors and Haeseler hammers and drills.

THE ATLAS PORTLAND CEMENT CO., of Northampton, Pa., has awarded contract to the C. & C. ELECTRIC CO. for a number of motors to be installed at its Hannibal, Mo., works. There will be 45 machines in all, the total horse-power being 860. These motors will drive cement machinery; 28 of them will be of variable speed, obtained by field control; voltage will be 500.

THE CONTINENTAL CONCRETE CO., Richard H. Haas, Manager, 1st Nat. Bank Bldg., Pittsburg, Pa., has been formed for the manufacture and erection of concrete factory buildings, residences, warehouses, culverts, floors and work of this character. The company also manufactures hollow building blocks. Mr. Haas was formerly associated with Ransome & Smith Co., also Robert A. Cummings.

THE A. S. CAMERON STEAM PUMP WORKS, Foot of East 23d St., New York City, report the sale of three more of their horizontal piston pumps to the O'Rourke Construction & Engineering Co., of New York City, contractors for the improvement in the Pennsylvania R. R. tunnel, delivery being made to the Manhattan side. The above named construction company also have quite a number of Cameron pumps in use on the Weehawken side of the Pennsylvania tunnel, and also along the line of the improvement in the New York Central R. R. tunnel in New York City.

A. L. IDE & SONS, Springfield, Mass., announce that they have established a New York office at 11 Broadway, through which all export, New England and Middle States business will be transacted hereafter, the management being entrusted to Mr. J. G. Robertson. This firm are the manufacturers and patentees of the Ideal Engine, used in manufacturing establishments, office buildings, and for power and electric plants.

THE QUEBEC S. S. CO., of Quebec, Que., and New York, has just put into commission a twin screw steel steamer to do service between New York city and Hamilton-Bermuda, W. I. The ship was built at the yards of Sir Jas. Laing & Sons, Sunderland, Eng. She is 5,500 tons, has 16 knots an hour, and has accommodations for 240 first-class passengers. She is 425 ft. long, 36 ft. 6 ins. depth and 50 ft. beam.

THE ACME ROAD MACHINERY CO., Frankfort, N. Y., reports that Wm. C. E. Hoag, of Quaker St., N. Y., who has been with the American Road Machine Co. and the Good Roads Machinery Co., of Kennett Square, Pa., for the past 16 years, has severed his connections with these companies and has associated himself with the Acme company, and will have charge of the sales department in the Hudson Valley and New York City.

THE ELECTRIC CONTROLLER & SUPPLY CO., Cleveland, O., reports that it has placed on the market a new type of magnet for handling pig iron, small billets, scrap iron or steel, small steel or iron castings, bolts, rivets, etc., in bulk. It is adapted to be carried on the hook of a crane and controlled by the crane man who can thus perform the entire operation of loading or unloading a car, or loading melting stock into charging boxes with no ground helpers.

THE NATIONAL WOOD PIPE CO., Los Angeles, Cal., advises that it has just made a large shipment of 8 and 10-in. machine-banded redwood water pipe to the Cananea Consolidated Copper Co., Cananea, Sonora, Mex. This pipe is to be used for supplying concentrators No. 1 and No. 2 with water. The first shipment of 16-in. machine-banded redwood water pipe was made several months ago, and has been installed and is now in use. This pipe is adapted for conveying water heavily charged with acids, minerals or alkalies.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

ELECTRIC MOTORS.—Thompson Electric Works, 346 Wabash Ave., Chicago. Paper, folders.

These circulars describe the company's small motors for printing presses, dentists' machinery, etc.

FILING CASES.—H. L. Couffield Co., Grand Rapids, Mich. Paper, 4¼ × 10 ins.; pp. 16; illustrated.

Various styles of sectional filing cases for card indexes, correspondence, reports, drawings, etc., are described and illustrated. Prices are also given.

UNIVERSAL JOINT PIPE.—Central Foundry Co., 116Y Nassau St., New York City. Paper; 7 × 10 ins.; pp. 49; illustrated.

Under the title "The Leaky Joint Problem and How Solved" there are here given some general matter on leaks from water and gas main designed to show the seriousness of the "Problem." Then follow testimonials and photographs showing how it has been "Solved" by using pipe with Universal Joints made by this company.

CONCRETE BUILDINGS.—The American Hydraulic Stone Co., Century Building, Denver, Colo. Paper; 6 × 9¼ ins.; pp. 48; illustrated.

The company's building blocks are shown and described, together with a number of buildings constructed of these blocks. The buildings include residences, the office of the National Electric Co. and the Nebraska State normal school. Numerous testimonials are given and there are plans for the construction of tanks, chimneys, bridge abutments, retaining walls, etc.

PRESSURE TANK WATER SUPPLY SYSTEM.—The Country Hydrant Co., St. Louis, Mo. Paper; 4¼ × 8 ins.; pp. 20; illustrated.

This system is intended for farm and country houses with well supply. A closed self-filling tank is set at the bottom of the well, with an air pipe connected to the top and a discharge pipe at the bottom. An air compressor worked by hand is used to charge a pressure tank connected to the air pipe, and when the cock on the discharge pipe (in the house) is opened the pressure forces the water from the well tank up the discharge pipe and into the pipe system laid through the house premises.

WATER TOWERS.—Chicago Bridge & Iron Co., Throop and 105th Sts., Chicago, Ill. Paper; 4½ × ... ins.; pp. 64; illustrated.

The greater part of this attractive little pamphlet is devoted to views and descriptions of water towers of standard and special designs, the elevated tanks having hemispherical bottoms. The structures are for city, railway and factory supply. Steel smokestacks, retorts and bridges are also included, and there are several pages devoted to lists of dimensions and capacities of tanks, properties of riveted joints, etc.

SPIRAL RIVETED PIPE.—Abendroth & Root Manufacturing Co., Newburgh, N. Y. 4½ × 7 ins.; pp. 64.

Many photographs show some of the uses to which this pipe has been put. Among these purposes one of the most interesting is a pipe line on pontoons used for conveying the material raised by a hydraulic dredge. Numerous tables give the diameters, weight, prices, etc., of the Root spiral riveted pipe, also of cast-iron fittings. The Root bolted joint is illustrated. Galvanized spiral riveted bilge pumps are shown, and prices given. Tables for converting pressure per square inch into feet head of water, weight of metals, etc., are placed at the end of the catalogue.

PUMPS, PUMPING ENGINES AND ACCESSORIES.—M. T. Davidson, 45 Keap St., Brooklyn, N. Y. Paper; 6 × 9 ins.; pp. 96; illustrated.

Besides steam pumps, pumping engines, power, air and vacuum pumps, there are here described condensers, evaporating and distilling apparatus, air compressors, exhaust relief, three-way balanced hydraulic valves, foot valves, basket strainers and a hydraulic ash ejector. The latter is used for removing ashes from fire rooms by means of pipe leading overboard through the side of the ship, and by providing it with a separate suction pipe it can be used as an auxiliary bilge ejector. Useful tables are inserted at the back of the catalogue.

AIR COMPRESSORS.—Sullivan Machinery Co., Chicago. Paper; 6 × 9 ins.; pp. 127; illustrated.

In this handsome descriptive catalogue the company's various types of compressors are described, and are illustrated by half-tone views of the machines and the detail parts, and also by sectional drawings. The dimensions, capacities, etc., are given in tabular form. Other apparatus described includes receivers and reheaters, rock drills and channelers, coal pick machines, prospecting core drills, and mine hoisting engines. Several pages are also devoted to the efficiency and operation of air compressors, tables of loss of friction in pipes, and similar information.

HOISTING AND CONVEYING MACHINERY.—McMyler Manufacturing Co., Cleveland, O. 6 × 9 ins.; pp. 74.

The well-known McMyler locomotive cranes and revolving cranes are shown by photographs, which indicate some of the many uses to which these machines may be put. One, for example, is seen operating an orange-peel bucket for dredging; another, handling a clam-shell bucket, is loading the cars with sand. Ten of these machines were used in building the locks at Sault Ste. Marie, Mich. Unloading towers and ore and coal conveyors, fuel-handling machines, hoisting engines, car-dumping machines, clam-shell buckets, orange-peel buckets, patented bottom dump buckets, scoop buckets, etc., form interesting features of this catalogue.

SPIRAL RIVETED PIPE.—American Spiral Pipe Works, 1173-1201 South Paulina St., Chicago. 4 × 8 ins.; pp. 54.

Taylor's spiral riveted pipe is illustrated by many photographs showing some of the uses to which it has been put. Tables are given of sizes, weights, strengths and prices. Standard cast-iron fittings are also listed, as well as valves of different types. Tables are given for weir dam measurement and miners' inch measurement, also tables showing the flow of water through pipes and head lost by friction, tables for calculating horse-power, etc. In view of the valuable data contained in this book, and the fact that it has a cloth binding, it may well serve as a book of reference for engineers.

CROSS TIES.

Atlanta, Ga.

The Louisville & Nashville Railroad Company desires to contract for the delivery of 50,000 cross ties in the city of Atlanta, Ga., and for the delivery of 50,000 cross ties in the city of Cartersville, Ga. Address J. E. WILLOUGHBY, Engineer of Construction, Knoxville, Tenn. 9-1t

DEPARTMENT OF THE INTERIOR, Washington, D. C., Office of Superintendent U. S. Capitol Building and Grounds, February 7, 1905.—In furtherance of the advertisement published under date of December 8, 1904, for certain work in connection with the construction of an Office Building for the House of Representatives, intending bidders are hereby notified that proposals for cut stone work for the exterior facades and court walls of said building will be received and opened at the above office at 2 o'clock P. M. on Wednesday, March 8, 1905, in the presence of persons desiring to attend. Plans and specifications are now ready for issue and will be furnished upon receipt of a certified check for fifty dollars ($50.00), payable to the Superintendent U. S. Capitol Building and Grounds as a guarantee for their return. Checks will be returned upon the receipt of plans and specifications. A suitable bond will be required for the faithful performance of the contract. The right is reserved to reject any or all bids, and to waive any informality in any bid. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. 7-3t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 18th, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 3d day of April, 1905, and then opened, for the enlargement (except elevator, heating apparatus, conduits and wiring) of the U. S. Court House, Post Office, etc., at Macon, Georgia, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Postmaster at Macon, Georgia, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 8-2t

U. S. ENGINEER OFFICE, 1000 22d St., N. W., Washington, D. C., February 21, 1905.—Sealed proposals for construction of earth embankment approach to highway bridge across Potomac River, Washington, D. C., will be received here until 12 m., March 23, 1905, and then publicly opened. Information on application. SMITH S. LEACH, Lt.-Col., Engrs. 8-4t

CONSTRUCTING QUARTERMASTER'S OFFICE, Oswego, N. Y., February 9, 1905.—Sealed proposals in triplicate for furnishing material and for the construction of a Wagon Shed and a Coal Shed at Port Ontario, N. Y., will be received at this office until 11.00 a. m., March 10, 1905, and then publicly opened. Plans, specifications, and General Instructions to Bidders may be obtained at this office. Blanks for proposals and all necessary information will be furnished upon application. A guarantee in the amount of 10% must accompany proposal. Envelopes containing proposals should be marked "Proposal for Constructing a Wagon Shed and a Coal Shed at Port Ontario, N. Y.," and addressed to W. M. COULLING, Captain and Quartermaster. U. S. Army. 6-4t

U. S. ENGR. OFFICE, Boston, Mass., Feb. 28, 1905.—Sealed proposals for Rock Excavation in Boston Harbor, Mass., will be received here until 12 M., March 30, 1905, and then publicly opened. Information on application. W. S. STANTON, Col., Engrs. 9-4t

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